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PREFACE.

In the management of this Journal, and especially during the last six months, if we have laboured under any one governing and paramount wish, or felt any one inclination with that over-anxiety which predisposes the most right-minded man to partiality or prejudice, it was the wish and inclination, fairly, to help our successful medical brethren to retain their elevation, and to assist those struggling for scientific notice in their deserving efforts after greater altitude. In the whole circle of the Profession we wished no medical brother ill whose conduct allowed justice to wish him well. We knew that our Profession gave, at the best, not too much happiness to its members, and, where duty would allow, we wished not to mark out from among them victims, for the misery ever caused by distempered invective and poisoned sarcasm. We felt that our Profession was not too united or harmonious; and we would avoid the needless task of kindling fresh coals of strife. We were convinced that society had not too high a notion of our claims on their regard and respect; and we could think it no duty of ours to lend them, with the Lancet's certificate, our authority for their injurious estimation. With these convictions, a consideration of interest operated with scarcely less potency. The wanton and unprincipled personalities of the persons who preceded us in the care of this Journal, made it essential, as a point of policy, that we should be overmeek to prove our fairness, and run into the very verge of fastidious prudery to satisfy the world of our claims to common honesty. Interest and duty thus conspiring to make us the favourable censor of our brethren—nothing, it may be easily conceived, but a paramount sense of justice could ever prevail on us to deal with any one of them in a harsh, or severe, or retributory spirit. It was with real pain, therefore, that we found ourselves in collision with the Physician whom we have designated, we think not untruly, the Ishnael of our Profession. We wish not to dwell on the transaction.

Casting this unpleasant reminiscence aside, we think we may look back with some pride to the exertions we have made during the last six months in purveying for our readers amusement and instruction. The lectures alone which we have placed before them have fairly been worth more than the whole expense our subscribers have had to pay for the volume. Few things of worth have been presented in any British or Foreign Medical Periodical, however costly, which have not been made known to them. The original articles we have submitted to them have not wanted the highest scientific interest. The communications of Dr. Clay, on his daring and successful operations for Diseased Ovaria, may be cited as among the most valuable contributions that have been made through any Journal, of late years, to Practical Surgery. The unanimous voice of the Profession has acknowledged our Pencillings to deserve inscription among the happiest efforts of biographical literature; they sparkle at once with the highest moral and mental qualities; and, with reference to our own efforts, editorially, it will not be denied that our emphatic condemnation of abuses on the one hand, and our earnest advocacy of improvements on the other, have never been wanting when there was any just cause

for either.

We shall perhaps be the more excused for supposing some little desert on our side in all this, inasmuch as it will explain, flatteringly, to the public taste—which we would think well of—the prodigious success which has crowned our exertions. With the expansion of our labours have expanded, in even disproportionate largeness, the numbers of our supporters. We are now incontestibly at the head of British Medical Periodicals, in reference both to influence and circulation; and, if history may serve as the groundwork of prophecy, we are justified in anticipating, and for no distant day, an extension unparalleled in the annals of class publications. The proportions of the Medical Times are already those of a giant, but of a giant who has not yet reached his full growth. 'Tis Hercules emerging from his cradle. The explanation lies in the fact, that while other Medical Journals have been but the dirty instruments of an ambitious or notoriety-hunting individual, or the puffing circulars of interested book publishers, the Medical Times is felt to be the emanation of the Profession—directed by minds which feel and represent their aggregate interests—its one sole absorbing mission, their good. This independence and representative faithfulness is the secret of our success—the essence of our power, a power which, as it has never been more needed by the Profession, will be applied to the protection of their interests with an energy proportionate to the force of that fulcrum on which all our efficacy rests—their support.

energy proportionate to the force of that fulcrum on which all our efficacy rests—their support.

With these few prefatory words, we usher into the world another volume. Another telling memento of Time's fugitive course, it seems as though fermed in a handful of days, a period short in retrospection, as the passage through the brain of the thought it raises—brief period, so few of which measure the sum of man's activity! How forcibly does the thought justify Hippocrates' contrast for us of the duration of art with the brevity of life! The lightest minded might be pardoned for turning moralist before a consideration which fails of its natural effect if it stimulate not to renewed diligence in the labours of utility and benevolence—if it elevate not above too warm an interest in the more sordid strifes of the passing day, which are only of engrossing importance because seen but in the deceptive microscope of the Passions—if it fill not with an inspiring consciousness that the only pains truly worthy of us are those

which spread beyond, and last behind us. 1

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LONDON, SATURDAY, OCTOBER 8, 1842.

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For the convenience of Subscribers in remote pieces, the Weekly Numb. The result is agree in Monthly Part, stitched in a Wisconstant and the March in the March in the Strapped Lauten [108, Ind. per Hall-ver, Post-tree in advance, Jone reserved by any Bookseller of New amin, a may be directed to J. A. Carrane, Vog. at the March 100 (100) of the Laute Collect Conson.

SUMMARY.

On the Laws of the Development of Organs, by P. R. A. School regulations as
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ON THE LAWS OF THE DEVELOPMENT OF ORGANS: OR TRANSCENDENTAL ANATOMY APPLIED TO PHYSIOLOGY.

By F & A SERRYS, Member of the Institute, of the Academy of
Medicine, Professor to the Museum of Natural History Paris,

Summary—Return of modern physiologists to the theory of epigenesis-Causes of this return-Necessity of combining the examination of the views of the accient with those of the moderns in pursuing the theories of organogeny-Consequences and deductions of thesi theories-Relations which organizerny cetablishes between the invertebrata and the vertebrata-Application of its principles to pathological matomy as well as to regetable life - Iristotle, the proposer of the theory of ventritugal development - Hes botanical and zoological classifications founded on physiology-Galen; his comparison of the formation of animals to the construction of a ship, adopted by Fabricius d'Aquapendente-Furtle views of the latter-Harvey, the first founder of the theory of Epigenesis; formation of the embryo by the addition of parts, by super-position, justu-position, adhesion, Sec.; his views on ovology.

Wr. shall now endeavour, as clearly as possible, to define this science, by briefly tracing the history of the development of man and of animals. We will explain the principles of this development, as well as its laws, and its relations with the other natural sciences. Interesting in its nature and object, this study acquires, from the labours and notions of the age, a still greater value. The system of pro-existence of organisms, till lately so universally adopted, has completely fallen to the ground, and the theory of epigenesis, so long abandoned, but so perfectly in accordance with the spirit of the age, has again risen in its place. "Once more," to use the prophetic expression of Lord Bacon, "has truth triumphed over error." This advance of organogeny is due to improved observation and philosophical deduction. In the deficiency or uncertainty of facts, the mind seeks to supply their place by hypotheses; but in proportion as facts multiply-in proportion as they are elucidated by perseverance and observation -- so are the reasoning powers enabled, by a comparison of their relations, to separate the true from the false materials. Hence results the necossity of combining the examination of ancient with modern opinions. Often, indeed, the truth becomes incomprehensible, unless we previously familiarize ourselves with the hypothetical conclusions which have been drawn.

Such is especially the case with organogeny, inasmuch as it serves as the basis to the theory of the centripetal development of man and auimal, in contra-distinction to the hypothetical theory of centrifugal development. For, if the organisms of man and animals are formed from the circumference towards the centre : if the centripetal law is the general and common rule of of all organic developments, it becomes essentially necessary to ascertain how the centrifugal law was established in opposition to it; what were its bases, and what its proofs. If, as according to the doctrine of epigenesis, the organisms are originally divided or seperated into distinct portions, ought we not to ascertain whence arose the centrifugal law, that last remnant of the doctrine of preexistence, which supposes these organism to be formed entire and without division? According to the former theory, which is entirely borne out by observation, we may trace the gradual and successive development of the organisms, their passage from one state to another totally different, their rariou transformations or metamorphoses &c.; while the advocates of pre-existence as-ert that all organization is in reality immutable, that the whole development consists in a transition from small to great; so that the feetus is but a repetition of the perfect animal, the embryo of the feetus, and the ovum and even the ovule, an infinitely minute repetition of the embryo; thus supposing the entire animal to be contained in a perfect state in the generative organe, and as it were endosed the one within the other since the formation of the world. The solution of this que tion becomes of immense importance as well in a physiological as an anatomical point of view. For if the or anima of beings existed in a perfect rate in their ancestors, even of the most remote degree, as the advocates of pre-existence as crt, we perceive the whole force of the argument respecting hereditary predisposition in races. If, on the contrary, the purents formish to the being, but the elements of the body which is afterwards evolved within itself. by a series of successive transformations, up to that definitive condition in which it appears in the world, then human liberty and individual responsibility resume their right.

The doctrine of epigenesis is moreover in accordance with the fact discovered by experience, But still we require a principle which, without distorting, will bind there facts together. Accumulated as they are, without limit, without rule, without locality, they make of general and comparative anatomy a perfectly dead science likely only to dishearten and diga t the mind by the aridity of its conception, or else mislead by dragging it into the labyrinth of German metaphysics But freed from these pre-conceived views which were destined to connect it with another order of ideas, organogeny presents to us nature in its true grandenr. The earth is an immen a laboratory in which there is constantly developed, since the first appearance of life upon the globe, a succession of new beings whose organization, following a progressive and ascending scale, gradually mounts from the infusoria, the lowest point of animal life, up to the mammifers and man, the highest of nature's efforts. Science thus exhibits a constantly ascending scale of life, guarded, at various distances, by wider lines of demarcation, periods of rest as it were; so that the whole animal kingdom appears to be in some measure but as a single animal which, during the formation of its various organisms, becomes arrested in its development, earlier in one part, later in another, and which thus determines at each period of its interruptions the distinctive and organic characters of classes, families, genera and pacies.

Hence comparative embryogeny, regarded useless and without object according to the theory of pre-existence, resumes among the physiological sciences the elevated rank assigned to it. In this point of view, in fact, we see embryos of the superior animals temporarily clothed with the organic and permanent attributes of the lower animals; while the permanent organism of these latter delineates in its successive degrees of perfection, all the embryonic phases of that scale of beings most approached to the lowest vertebrata. We thus bring within the sphere of of a better classification, are at pre-ent but a course of confusion and error to science. What is there, in fact, similar between the organisms of the aims lida, of the medlusea, and that of the vertibrata, if considered when the latter is arrived at the best stage of development? What is the law which could embrace within its scope arganisms so different, o distant, and whose contrasts are so striking to the eyes of the inexperienced observer? But when we elevate in idea the organisms of the invertebrata, or, which comes to the same point, lower in a like proportion, the arganisms of vertebrated animals, we shall obtain comparable elements, and shall be enabled clearly to distinguish their differences as well as their analogies. This is precisely what nature does in the grand scale of organogeny. Not being able in the actual order of its developments to raise the invertebrata, it brings the vertebrata to their level. This is the remarkable feature which embryogeny presents in these latter animals. Follow in all their phases the multiplied changes which their weganisms undergo during development: dwell on each of their metamorphoses; study with care their characters, and you will see the e transformations delineated, each passing through the forms and attributes of the permanent organization of invertebrated animals.

Such is the general result of embryoseny. One by one its most e-cential consequences become unfolded. In the first place, if comparative anatomy is a species of permanent embryogeny, organogeny is, in its turn, a transitory kind of comparative anatomy. Secondly, If orcaulties in the course of their development become arrested in their progress, they must necessarily reproduce the coof some animal of a lower rank in the cale of existence. 3rdly, Pathological anatomy, or that relating to a cormal organizations, is in reality but organoscav in an arrested stage. or, what amounts to the time thing, it is but a new form of comparative augtomy. This the organisms of the lower class of beings are but those of the superior class in the course of development, we necessarily have a new impulse given to organogeny by the study of vegetable life. Lastly, and this point is of importance-if the formation of organised beings may be reduced to certain rules, these organos enic rules will consequently be applicable, both to comparative and pathological anatony, perhaps even to the system of vegetable life; for in science, as in nature, everything seems connected, and intimately bound together.

We thus see that the primary or fundamental question of organogeny and of zoogeny, is reduced to this: whether the organisms of animals become gradually formed, or whether they pre-exist.-These two opposite opinions have, since the origin of cience, been contested under the names of epigenesis and of pre-existence. During the last century, the doctrine of pre-existence prevailed from consideration; unconnected with anatomy and physiology, and epigenesis was rejected from a too early despair of discovering the laws presiding over the formation of occasion. The law of contrifugal development is the consequence of the theory of organic pre-existence, as the centripetal law is the consequence of epigenesis. The general que tion thus merges in the discussion of these two laws; and we shall, while seeking the suppositions origin of the first, see delineated the facts which establish the second.

Aristotle must be in some measure regarded as the founder of the theory of centrifugal development. His extensive mind, embracing within its grasp all organised beings, and foreseeing the necessity of a mode of distinction, arranged them under that classification common to all, named life. Starting from this point, he divided organized brings into two classes: those which, like vegeta. general and comparative anatomy the immense bles, have but a single mode of existence, vegeta-collection of invertebrated beings, which, for want tive life, and those which, like animals, have, besides

vegetative life, that of relation. This first classifieation of zoology and of botany, was consequently entirely physiological. This admitted. Aristotle established that the appearance of vegetative life upon the globe must have preceded animal life. which, he states, was merely superadded to the former with a view of perfecting organised beings. Animals being endowed with two kinds of life, the development of each, as well as that of the corresponding organs, must be subjected, he adds, to the general law of vital manifestation; for animals are but moving vegetables endowed with free communication one with another. The question of organogeny is thus reduced to a simple topography of the vegetative apparatus and of those of relation. Now, who is unacquainted with the fact, that the heart, and the lungs, the stomach, and the intestimes, are placed in the centre of the perfect animal; whilst the organs of the senses, and those of locomotion, occupy its outer portion? According to the principle of Aristotle, development should then proceed from the centre towards the circumference, or from within outwards. The senses indicate it, says this great naturalist, and reason cannot conceive otherwise. To indge fairly of this theory, which afterwards became so celebrated. we must carry ourselves back to the precise period where Aristotle makes the development of animalto commence. This was neither with the vesicle of de Graaff, which was unknown to him, nor with the ovule, of whose existence he was likewise ignorant, nor even with the membranes of the ovum. nor the little cicatricula or rudinient of the cinbryo, of which in his time no precise notions were entertained. According to him, the first development of the oving and of the embryo-germ are not animal formations. These developments belong to vegetative life. The animal, according to Aristotle, does not commence until the movements of the heart manifest themselves. Then only it hecomes a moving being (per se movens), it ceases to be a vegetable, and is endowed with the first characters of animal life. The appearance of the movements of the heart was then, according to Aristotle, the commencement of embryogeny; and this organ became the centre whence all others radiated towards the circumference. This erroneous view was the first pource of the theory of centrifugal development.

Without stopping to consider the objections which even the order of developments furnishes against this opinion, we ask of modern physiologists, who among them would venture to assume the responsibility of propagating such a notion? Who would dare to maintain that the ovule and its membranes, that the ovum, its coverings, and the first traces of the embryo belong to the vegetable kingdom? Who would make animality to commence with the tardy appearance of the heart. whether in the embryo, or even in the animal kingdom, and thus throw back among vegetables, the infusoria, the zoophytes, the greater part of the annelida, and even some of the mollusea? Still it is upon this rash ground that the hypothesis of e ntrifrugal development is henceforth to rest, Every being destitute of a heart is to be arbitrarily excluded from the animal kinedom,

Galen, whose treatise, do non partition, deservedly ranks so high, adopted without restriction the views of Aristotle. Not having traced, like him. the different phases of formation in the chicken, he was unable to maintain his opinion as to the nudoubted evidence of the senses; but he made amends by calling to his aid all possible forms of reasoning. His comparison of the construction of a ship, of which be madeuse to render the conception. of developments within the reach of every body, has been extolled down to the present day. says Galen, in this construction, the builder first lays down the keel, which constitutes the centre of the vessel; in the same way nature first forms the centre of the animal, which, for this rea on, has by some been named the carina: then, around this centre, the lateral parts of the animal, as in the ship, become successively placed or supported, so that, in both instances, the formation takes place from the centre towards the circumference; for nature is the image of art, or rather art in this ease but imitates the work of nature. This comparison appeared unan-werable to the host of fol- ment, as clay under the hands of the potter. he

lowers and admirers of this physiologist, and the building of a ship became without opposition in all the schools the emblem of man's development. which Galen declared with reason to be the grandest of Nature's operations. We must here remember the immense influence which this physician for a long time exercised over the minds of anatomists. to be enabled to understand the prodigious success of this manner of interpreting the invstery of organic developments.

Aquapendente even sacrificed to it his own This remarkable man, who among ancient physiologists best comprehended the problem of the formation of animals, traced with a bold hand the course which could alone conduct to its solution. The chicken, said he, is preceded by the egg: to understand how the first is developed, it is, therefore indispensable, he concludes, to trace the formation of the second. This rigorous and strictly logical method led him to the discovery of the ovigenous vesicle, to which De Graaff afterwards attached his name, and the use of which it was reserved to Malpighi to unfold to us. From this vesicle. Agrapendence traced the ovmp, which is one of its products. The ovum thus formed or secreted by the ovigenous vesicle, he followed step by step its transformations in the course of incubation, Directing his attention especially to the development of the membranes, he observed that these formations precede the development of the cientricula, in the middle of which appear the first traces of the chicken. Then applying himself to the formation of the latter, he came to the conclusion that the chicken is formed at the expense of the ligaments of the yolk, of which it seems but a prolongation : an ingeniou sidea which was subsequently applied by M. Oken to the mammifera. Following up this reasoning, Aquapendente believed that he had discovered in the three primary protuberances of these ligaments, the origin of the three large cavities of the upper class of vertebrated animals: the head, the thorax and the abdomen; and that the limbs were merely superadded at a later period to these three principal centres of life. Now, the ligaments are situated at the extremity of the two diameters of the egg; in unfolding themselves they advance from without inwards; their progress is then concentrical; and if these ligaments form the chicken, it is manifest that the constituent materials of the animal are directed from the two extremities of the egg, to the central or median point where the cicatricula manifests itself. nature, in this work, obeys the centripetal law, This conclusion is inevitable, and everything indientes it to have been the idea of this anatomist, although he does not positively express it in his

If Aquapendente had been unbiassed by preconceived notions; if he had followed the bent of his own observations, as evidenced in his able researches on incubation, there is no doubt but that he would have laid the foundation of centripetal developement; but making the connacncement of animal life to depend, according to the views of Aristotle, on the appearance of the heart, he was led still further astray than Galen in his views on this subject. The comparison of the con truction of a ship appeared to him so ingenious that he was constantly quoting it. He went still further: for he asserts that, as the artist first lays down the most colid materials to serve as a foundation for the others,—so, in the formation of animals, nature commences by the development of the bones, and then constructs around this solid frame-work the other organic tissues. What! the bones precede all other organs! Well may Harvey demand, if it was really Aquapendente who made this surprising assertion. Who, in fact, does not know that, in the order of organic formations, the bones -the solid part -are the last to manifest the aselves?

Harvey, tracing in his turn incubation and the first stages of generation with that eagle-eye characteristic of his genius, cast on all sides flashes of light which struggled to dissipate the ancient doctrine; his mind, strengthened le, observation, could not conceive these formations to be only a medification of organic matter which should merely clunge in form, at the various period of develop-

could not see the embryo in the ligaments of the volk, and the entire chicken in the cicatricula. "It is there," he adds, "or it is not there. If it is there, who can show it; and if it is not there, if no one can discover it, why suppose that it is? Is this the manner in which we should proceed in this difficult branch of science? Is not the study of existence already sufficiently complicated? Must we add to it the solution of our dreams, and the contradiction of our suppositions? Harvy could not conceive the embryo to undergo a series of transformations only, according to the idea of Aquapendente, and as the disciples of the theory of pre-existence more recently supposed. The embryo, of which the first rudiments are in the civatricula, is formed by the addition of parts, by super-position, juxta-position, cohesion ; whence it follows, that the whole being is not contained in the primitive nucleus, but results from a succession and association of the various parts. language gives for the first time a scientific character to the doctrine of epigenesis. But unfortnnately Harvey, like his predecessors, attributed to embryogeny two kinds of life, for he states that the membranes of the ovum, the first outline of the embryo, are the product of a peculiar life. Up to this point the organized being is a vegetable, it is only animalized with the first pulsations of the heart, which this physiologist in like manner makes the primum vircus. From this consideration, com-mencing only at this point of organogenic study, Harvey believed, and was, as it were, bound to believe in the reality of the centrifugal development of Aristotle. This was his error, but this error was compensated by discoveries and by new views, which are almost worthy of ranking with the immortal discovery of the circulation.

" All animals and man," said he, " proceed from an ovum;" and since the time of Harvey the most profound anatomical researches—the most minute microscopic observations—have revealed to observers that the ovum is, in fact, the general matric of the animal kingdom. In creating avology, this bold idea at the same time opened new routes to embryogeny and zoogeny. If, indeed, all animals proceed from an ovum, do we not perceive in that general fact the germ of the primitive analogy of animals which our illustrious Geoffroy Saint Hilaire traces through all organisms? Do we not also see that all animals must arise from this common ovum, according to constant order and invariable rule—as Harvey positively asserts? May we not also, finally, perceive that, to discover this order of formation, it is indispensable to follow attentively the gradual and successive appearance of the organisms, a course which this great man laid down as a general precept? The consequence, so to speak, of this manner of studying organogeny, is a conviction that the embryos of the superior animals and of man must traverse in their development the organic states which characterize the lower class of animals: a truth, the demonstration of which will, perhaps, constitute one of the glories of our age.

In all the animal kingdom the first product of generation is a simple being, almost identical throughout the whole series. It is an fovum, that is to say, a fluid surrounded by a membrane, to which is added a small zoosperm. The ovum is furnished by the female, the zoosperm by the male. We find both the one and the other, and each apart, in the generative organs of the sexes whether these organs are combined in the same animal, or whether they belong to separate individuals. Thus we have in a distinct state the two elements, differing in nature, the combination of which gives birth to a new being. But how does this combination take place? What passes within the ovum and the zoosp rm at the moment when the union of these two elements is accomplished? This mystery seems impenetrable to our senses: God only knows the secret. We may indeed perecive some differences between the foundated and the indecundated ovum; but these differences however important in themselves, are altogether trivial when compared with the great act which has taken place, with the grand result produced by incubation and development. There is, however, a chemical phenomenon which seems to have some analogy with the generative process, that is the formation

of salts. As in generation, there are here two distinct principles, the salifiable base and the acid; so, also, there is a new product, a binary compound, the salt. Now we may compare the salitiable base to the ovum, the acid to the zoosperm, and the salt to the feeundated ovum. what passes at the moment of penetration of the base end of the acid? How is it that a sale is formed with properties so different from its two radicals when taken separately? Of this we are ignorant. Neither the theory of equivalents nor that of substitutions can explain it. Electricity also leaves us in the dark. If this natural and simple phenomenon is a mystery to the chemist, can we be astonished that the physiologist should be confounded by the infinitely more elevated phenomenon of generation? The chemist, indeed, performing himself the mixture, the generation of the salt, which takes place under his eyes, seems an experiment of a more certain character than that of generation, for with the two ralicals be can create the salt at will. But this degree of certitude, if such it be, the physiologist has, in common with him, for the physiologist can place in one vessel the non-feemdated ova, and in another the zoosperms. By pouring the latter over the ova, he can create animalcula at will, in the same manner as the chemist forms salts; and this generation may be performed not only on the infusoria, the mollusca, the annelida, the crustages, and on insects, but even fishes and reptiles, advanced as they are in the scale of organization, may be developed in this manner.

PRIVATE COURSE OF OPERATIVE SUR-GERY.

By J. NOTTINGHAM, 1 q., Member of the Royal College of Surgeons of London.

INTRODUCTORY LECTURE.

Prefatory Remark.—Ravity of Good Opera-tive Surgeous.—Difficulties surrounding this Branch of Science, Professor Jungken's Opinion, Opinion of Celsus on the Qualities required. Utility of Anatomical Investign tions, and Viviscetions,-Improvements in the Law in this respect.—The Uses and Advantages of Ambidexteri'y. Of an acquaintance with the Dead and Forcign Living Languages. -Of enlarging the Powers of the Mind by extended Studies.—Especial Need of a Knowledge of the various Divisions of Medicine and Surgery .= Professor Serres, Lectures .= The great art, the safely avoiding Operations.—

GENTLEMEN,-In commencing a course of lectures on any scientific subject, or on any department of art,-it is customary to give at least a few preliminary notices of the history of the science, we are about to treat of; and this is generally done by the professors or teachers of Medicine and surgery. As the course of lectures, however, which we now commence will be confined, as much as possible, to operative surgery, without attending to any of the details which relate to what may be called the medical section of this branch of the healing art, -we may be allowed to dispense with the historical preface, which, if short, would, of necessity, be very imperfect and unsatisfactory; and if long, or at all approaching perfection, would occupy the greater part of that time, which we propose to devote, to an account of the present state of operative surgery. Besides which, it is of the utmost importance, that we should consider well and make ourselves acquainted with surgery as it is,-while a knowledge of the details of its early history, amongst the various cultivated and polished nations of antiquity, although an interesting part of the luxury of erudition, is not an indispensable attainment for a good surgeon. We may, however, remark on the close of these observations that the modern, but more especially, the recent history of sur-

memory of every one of us, if we desire to do justice to those, who, from time to time, within the last two centuries more particularly, have aided by the influence of their genius, or the unwearied application of their industry, the late progress of this noble pursuit,

Every one who has attended to the history of the healing art, must have been struck with the obviously small number of men, who have heen distinguished as operating surgeons; for how many rate qualifications are required, and how great are the difficulties in the way of attaining them; for if we may believe the statements of surgical writers, it is only a very small proportion of those, who even diligently study our profession, who arrive at any considerable distinction as operating surgeons. Some branches especially of operative surgery, present greater difficulties than others; for instance, on the one hand, that class of operations called great or capital, such as the more important amoutations, the operations for stone, the ligature of great and deeply seated ldood-vessels, the removal of certain tumours, the operations for strangulated hernia, requiring for their speedy, safe, and effectual performance, the most exact anatomical knowledge joined with an advoitness of surgical manipulation, and the enjoyment of an imperturbable coolness; on the other hand, that class of operations, sometimes called minute, in which the organs of sense are frequently concern d. and of which, operations on the eye, afford a convenient illustration; for here, a knowledge of the minute anatomy of these delicate organs, must be brought to the guidance of the scissors, the probe, the caturact knife, or the couching needle; all delicate instruments, which become dangerous weapons in the hands of the ill educated surgeon.

The German Professor Jungken, in his work on the operative surgery of the eye, remarks, that although he had taught during ten years this branch of surgery to a half yearly class of about thirty students, very few of them attained to such perfection in the art, as to enable them to perform these operations tolerably well on the eve of the living subject.

Since the excellent regulations of the Apotheeries' Hall of London, have obliged medical students to read a little more of the Roman tongue, the qualifications of a surgeon as laid down by Celsus, have become tolerably familiar The Latin writer, says:-

A surgeon ought to be young, or at most, but middle aged, to have a strong and steady hand, never subject to tremble, and to be no less dexterous with his left than his right hand; to have a quick and clear sight; to be bold, and so far void of pity, that he may have only in view the cure of him whom he has taken in hand, and not in compassion to his cries either make more haste than the case requires, or cut less than is necessary: but do all, as if he were not moved by the shricks of his patient.

The truth of such remarks will not, indeed, be doubted, and this list of the personal qualifications of the surgeon, has been repeated and commented on by most succeeding writers on the subject, who have not, however, given sufficient attention to those occupations, studies, or modes of education, which assist us in attaining to the conditions here traced out.

It is fortunate that the study of anatomy and physiology oblige us to betake ourselves to the very occupations, which tend so effieiently to prepare us for the practise of operative surgery; for the constant handling of the scalpel, the forceps, and other instruments, which dissecting-room pursuits require, gradually imparts to us that adroitness in manipulating these instruments which tells so well gery, should be methodically stored in the when we have similar ones to apply to the a great deal of inconvenience, and preventing

living body; while those operations on the lower animals during life, which are indispensable to the scientific physiologist, accustom us to the screams, the writhings, and violent efforts, which to the surgeon not well initiated, are not only painful, disagrecable, and troublesome, but now and then oppose effectual barriers to the completion of that which might otherwise have been a tolerably good operation; this is often seen more especially to interfere with the surgical treatment of children.

We may congratulate ourselves that the well educated portion of the community, now no longer display those insure prejudices which for so many centuries kept back the progress of anatomy and physiology, and wilfully and resolutely kept in the dark, all the beauties displayed by the structure, and the miraculous workings seen in the functions of living and organised bodies. We no longer complain of the strange contradiction in our institutions. which permitted the co-existence of chartered bodies to examine men in anatomy, and of laws to prevent its study; happily, we begin to tread on the heels of our friends across the channel, in all that relates to good regulations for the furthering of these departments of science, as they do upon ours in many sections of public improvement, mechanical science, and productive industry. Nor are those departments of experimental physiology, any longer regarded as monstrous and croel, which oblige the scientific inquirer occasionally to inflict pain on those creatures, whose organs more or less resembling corresponding parts of the human economy, have been interrogated with the aid of the knife, and thus compelled to declare the secrets of their structure, and actions, in this way throwing a light on the admirable mechanism of man which could not be studied in a similar manner.

Indeed, while such prejudices did exist. it was often more amusing than painful, to listen to the manner in which they were expressed. for those who were loudest in their declamations against the inquiries in question, which might be said to produce food for the mind, were seldom found commenting on those sufferings of the lower animals, the results of which are food for the belly; to fry certain kinds of fish alive, or to produce blanched yeal by repeated venesections, or to imprison many of the brute creation, and confine them during weeks or months, to an artificial and fattening diet, were not discovered by the same possessors of relined feeling to be in any way either torturing or shocking. We will, however, leave these matters as they are, to the future improvement and progress of which they are capable, satisfied with the pleasing encouragement, which the present state of civilisation, gives to every branch of rational and fair enquiry, and to the prosecution of every useful art.

It must be remembered then that these habits of dissection, and oceasional vivisection, are of such importance in the training of the nervous system and of the hand of the surgeon, that however much some weak-minded people pretending to gentle manners, and tender heartedness, should attempt to speak against them, their eloquence is to be treated as sounding brass, or the tinkling cymbal, and they are not to be listened to, even if they quoted the pathetic lines of the poet-

I would not enter on my list of friends, &c.

Few surgeous are ambidexterous, vet all may become so; Celsus, and those writers since his time, who have copied, or imitated him, attach considerable importance to this acquisition which is capable of warding off

as much disagreeable awkwardness. It is not best results of his labours in his valuable and and should then proceed to learn the modern easy beforehand to divine what men morally, intellectually, or manually, are capable of, and we ought to consider, that there is every incentive to the adoption of methodic and persevering culture, for the purpose of overcoming those difficulties before alluded to, which have been said to be so great, and which are believed to be capable of limiting so much the number of good practical surgeons; indeed the very difficulties themselves have within them the germ of our greatest and best reward, for in proportion to their magnitude, will those who overcome them be few, while the less the number of labourers, so, at the same rate, greater and more promising will remain to each the products of the cultivated field.

Hence, it is evident, that the surgeon is of all others, the man who most should study bimself, should discover his own weaknesses, and endervour to remove them, while he findent at the same time the sources of strength with which they are associated, and determines

wisely to apply them.

The pursuits and operations above noticed. will declare to him something of his own capabilities; and will unveil the nervous feelings or weaknesses he may have to orercome; the source, the namice, and con e of which, being scrutinized and under tood, he will, mescad of despairing of meress, he rendy to exclaim with the Roman poet —

Telix, qui potuit rerma sogno es recomsa en Atque factus omnes et inexorabile farian-Subject polibus, strepitzaque Acherenis Avari!

But when these characteristics of the quality we call firmness, are proceed in the full t extent, the surgical student must still regard himself as merely standing on the thre hold of preparation, beyond which its harermo t chambors, and fardier A casa have yet to be some and which will be found to contain much that is associated with higher moral and intellectual advancement, and with acquisitions not so easily made.

Here we may be all wed to remark that as the study of medicine and surgery, are generally commenced at so early a period of life that it would be in possible for an extended classical and mathematical, or a literary and scientific education about to have been attained; the surgical student should be arough recommended, to add a little every day, to the schoolboy's former attributed if his needest to do this, and devote him shi cheln ively to his professional studie, he will find when it is too late that he has hally concenized his intellect, and his industry, in losine sight of some of the onices of the greatest profit at well a enjoyment. That period of rions which is in this country occupied by the preliminary studies or by the approached hips is of inestimable value, if rightly ind, for it affords ample opportunity, not only of Legding up and improving the attainer at aheady alluded to, but of a quiring such browledge of modern languages, percentage from to and German as will afford no middless bl in our forme surgical studies; nor vill this be the only source of their importance and value, for a moderate Lines between the Literature and s iches of our neighbour, will or dure which that can non marrow mind due, theh at-tacles a open a value to a sythic bit a lactacher a aper a value to a sything reason on to ourselve. In support of such a trainal let us quote the language of our county man who to a voi dolest or parties is adottain ments join a toward sprival codes and such who not only unset of the derivative of the German tom use a critical value of a qui dien to a reason to use a constant as a constant a in this country, was much the communithan a present, but give blocally to the world, the

classical writings. He says,-

The temple of science has not been raised to its present commanding height, or decorated with its heautiful proportions and embelli liments, by the exertions of any one country. If we obstinately shut can ever to all that other nations have contributed we shall survey only a few columns of the name tie fabric, and never rise to an adequate conception of the grandeur and beauty of the whole, in-ular ituation, by restricting intercourse, has contributed to generate a contempt for foreigners, and an unreasonable notion of our own importance, which is often ludieron, always to be regretted, and, in many cases, strong enough to resist all the weapons of reason and ridicule. We should conider what we think of these national projudices, when we observe them in others; when we see the Turk summing up all their contempt for their more polished neighbours, in the short but expressive phrase of "Chai tian does," and the Umperor of China accepting presents from the King of England, because it is a principle of the Celestial Empire to shew indulgence and conde consion towards petty -:

Science requires an expanded mind-a view that embraces the universe. Instead of shutting himelf up in an island, and abusing all the rest of mankind, the philosopher should make the world his country, and should trample beneath his feet those prejudices which the vulgar so fondly hug to their be-one. He should swe penway from his mind the duct and cobwels of national partiality and camity, which darken and distart the percept tions, and fatter the operations of intellect. If the love of science and liberal views are not sufficient to repress the noisy obtrusion of national claims. considerations of policy may furnish the motive. The country which has really done the most for science, will certainly be the last to assert its preten ion; and a readiness to allow the merits of others will be the most powerful means, next to mole ty and ditidence, of recommending any own to attention.

It is, however, very easy to full into this habit of national partiality, or rather it is dutienlt to avoid it: Richer and when speaking of the English, says-that "they are too proud of their Breon, their Locke, and their Newton, and vainly aspire to a superiority too toniversal;" yet he immediately after, is disposed to persuade un that J. L. Petit was superior to Cheselden, and that John Hunter cannot be compared with Desault. If we could suppose that seionitie men were influenced by current popular prejudices, or finetured with the lasting animosity readling from the events of wor, we might be disposed to regard Richerand as s ment at bigsed in this way for the date of his writing was such, that the hones of Waterhas scarce whitened the plain, which as yet, was teched with blood.

Without multiplying the e-country, let us remember the expression of Burke that "the v he calls in the aid of an equal under-tanding, double: his own; and he who profits of a uperior under trading, raises his powers to a below with the height of the superior undertrading he unites with, for if suggest, the policy of dome justice to our neighbours, and taking right advantage of their labour at the

As we have preferred the discussion of the dath and neces are attainments of the surgeon to the only history of our art for the greater part of this discours , we may, for a moment, direct our attention to observations which have been under on hich allights, and which deserve to be treasured in your memory.

The well-known French writer, Martinet unthor I they double little work on Pathology, when speaking of the qualitication of the Medical Observer, eys 22 Whoever wishes to excend the boundarie of science, should communes to coherition, by acquiring a perfect Transledge of the Greek and Latin languages | mental discipline, and is, indeed, the grand

languages, particularly the French, Italian and German. This is necessary to enable him to study with effect the many excellent works, published by our neighbours; and (should he visit those countries) to observe with advantage their clinical practice, and form an accurate estimate of their modes and principles of freatment

The Observer should acquire correct ideas of several sciences which may be deemed aceessary to medicine. He should be acquainted with Chemistry, Natural History, and Natural Philosophy, as he will constantly have occasion to make application of their principles; and if he be ignorant of them, many physiological and pathological phenomena, will appear alto-

gether unintelligible.

The sciences more strictly medical, and therefore indispensable, are, general pathology, physiology, and anatomy, particularly the anatomy of the tissues and viscera in their healthy state, which has hitherto been too much neglected, and which has begun to he properly regarded only, since pathology has been more carefully studied. How can any person know a particular tissue to be diseased. if he be ignorant of its characters in its healthy state? How can be distinguish the effects of disease from those changes which occur after death has taken place, if he does not possess correct notions of each, and of the anatomical characters which are peculiar to them? Until anatomy is studied in this way, disputes and controversies will go on, as they hitherto have done, and medicine will make no real progress towards improvement. These remarks apply with at least equal force to pathological anatomy, without a knowledge of which it is quite impossible to give precise and detailed statements of the various alterations of which the tissues and organs are susceptible, or avoid confounding the different structural lesions which occur in them.

These, however, he continues are not the only requisites which an observer should possess. He should be acquainted with materia medica, surgery, "Hygiene," and above all pathology, without which, he can establish no elaim to the character he assumes; and still it i by observation only that he can become a

pathologist."

We need not inform you, gentlemen, that all the above named qualities which the good medical observer is said to require, are indispensably necessary to the surgeon; but besides possessing all the attainment which a physician's occupations demand, the surgeon must have some important additional acquisitions to

tit him for his peculiar pursuit.

In Martinet's remarks, descriptive and surgical anatomy, are not of course peculiarly insisted upon as of great importance to the ordinary medical observer; they are, however, of the utmost moment to the operating surgeon, who, attempting anything without them, might he compared to an ignorant countryman-who, without apprenticeship or previous study, should at once be dubbed engineer, take his place on the railway, and have the lives of a whole train entrusted to him

Fortunately for our profession, as well as for every other, since the time when Martinct penned his little book, the system of general education has been very much improved, and this begins indirectly to tell on the special education of medical men. In the present state of ome of the collateral sciences, which it is incumbent on surgeons to acquire, there begins now to be felt a want of a more extended knowledge of mathematics, which has long been regarded as the best source of severe

enemy of intellectual feebleness, and credulity: we ought gladly then to hail the day, when with better curricula of medical education this, so called, science of demonstration and truth, will be placed at the head of medical pursuits, as it were watching with a keen glance, the condition and progress of all associated studies; then will conviction in medical science, be measured more regularly, by the value of evidence, men will no longer generalise without particulars,-facts will not, without reason, bend to previously established opinions; never mind whence it came, or who were its authors, when theories in the good sense of the term, will be common, founded on inferences drawn from principles which have been established on independent evidence,but hypotheses exceedingly scarce.

From such observations, somewhat irregularly brought together, you may form some idea of the general and special attainments which we consider the surgeon to require.

The plea ures of anatomical pursuits have lately been much increased by the application of the microscope, and from a notice we observe in the last number of a valuable periodical, the Medical Times, it appears that a course of lectures, by Professor Serres, is about to be published in that Journal, "on the Generation of Organs," which will be likely in its connection with general embryology, to throw a peculiar charm upon the study of the anatomy and physiology of development, and afford a ground-work for more scientific zoological investigations.

Before we conclude, let us return for a moment, to matters more peculiarly connected

with operative surgery.

This, it must be borne in mind, is merely the manual or mechanical branch of therapeutics, the other divisions being the dietetic and pharmaceutic, and it is of the utmost importance, that we should remember, that a skill to avoid operations, especially, the more painful and mangling ones, is more valuable to the practitioner and to mankind, than the greatest adroitness in manipulation, or the most brilliant surgical display. Let not the surgical student be over dazzled with the sheen of the catlin, or other polished and glittering weapon; but let him ever bear in mind that one of the best and greatest boasts of modern surgery, is the saving of limbs, which our predecessors were accustomed to lop off, so that in the treatment of some serious forms of disease and accident, the other departments of therapeutics have of late, more especially, declared their power and rights; the number of operations being relatively lessened, and the living monuments of imperfect surgery, coming now less frequently in our way.

Indeed it might be said, that the best surgeon is he who cures the greatest number of diseases, with the smallest number of operations, and certainly there can be no comparison between the triumph of the man who has removed a limb boldly and well, and that of another who might have suggested some mode of treatment, by which the member once doomed to amputation, should be saved, and the patient spared the enormous suffering of the operation, and the appalling mutilation which succeeds, " Operiren heisot: durch operation heden," or operating, is enting by operation, is a remark of Jungken, whose name we had occasion to mention before, and this would form a fitting motto for every wirk on operative surgery, tending to keep before us the great and good object of operations, and to prevent our esteeming anything belonging to them which has not tasting utility in view.

We have before remarked on the education tion, which was soon followed by dilatation and elements of inflammation; and 2dly. That and training of the hand, but the most adroit diminished motion. These last two observers there is no inflammation without enlargement

and hest collected hand in operative surgery, would be dangerous rather than useful, unless guided by a corresponding head; a thorough knowledge of pathology then, and of all the means which assist diagnosis, let us again repeat are indi-pensable; the surgeon should act like the Captain of Tasso; "Col senno e con la mano;" and as we have not time to enter upon any discussion respecting the savoir faire of the profession, let it be once for all remembered that it is equally his duty to think before he acts, and before he speaks.

Before, gentlemen, I take leave of you, and wish you every success that your labours may merit, -and every good fortune that the favour of heaven may shower on your noble career,let me strongly recommend to you an untiring industry, methodic study, and an ever zealous love of knowledge, remembering in addition to what we have said, these few words of our famed countryman Bacon. "The pleasure and delight of knowledge, it far surpasseth all other in nature. We see in all other pleasures there is satiety; and after they be used, their verdure departeth, which showeth well that they be but deceits of pleasure, and not pleasures; and that it was the novelty which pleased, not the quality; and there fore we see that voluptuous men turu friars; and ambitions princes turn melancholy. But of knowledge there is no satiety, but satisfaction and appetite are perpetually interchangeable."

COURSE OF LECTURES ON THE THEORY AND PRACTICE OF MEDICINE.

D bycred by C. J. R. WHLIAMS, M.D., F.R.S., Probe of of the Practice of Medicine, and of Chinical Medicine, at University College.

(Continued from page 16.)

W L found that in congestion the vessels were enlarged, and the motion of the blood diminished, so that redness. - welling, pain, and also some degree of heat were present; but in inflammation, the motion of the blood is increased, the sensibility much exalted, the heat considerable, and the secretion increased—the function of secretion is nearly always impaired by congestion, so that on the whole we see a great distinction between inflammation and congestion. Again, it differs from determination; for although in determination the vessels may be enlarged, and the motion increased, and the heat and sensibility exalted, still there is one grand point of difference between it and inflammation, viz., that in the latter there is an alteration in the products of the part-it is the tendency to the exudation of lymph that especially characterises inflammation. The state of the ressels also differs somewhat from that of determination, inasmuch as in inflammation there is partial obstruction to the flow of blood, and, as a consequence, partial accumulation giving rise to increased tension and redness. There have been various opinious as to the causes of this condition of the vessels. Cullen concluded that the obstruction was owing to spasm of the extreme vessels, and that the "vis medicatrix" struggling against the obstruction, was the cause of the inflammation. But this view is quite out of the question, seeing that there is no spasm of the extreme vessels, but rather a relaxation of dilatation. Hunter knew that the vessels were enlarged, and thought there was something active in the process. called it "active dilatation." Kaltenbruenner had a nearly similar idea, he called it "active or inflammatory erection." Doctors Thomson and Hastings observed, that the immediate effects of the application of an irritant was contraction of the vessels with increased motion, which was soon followed by dilatation and

have rather confounded the effects seen in the arteries with those een in the capillaries.

M. Gendrin has shewn that obstruction is one of the most important features in inflammation: he also noticed that the quality of the blood itself was changed—that the red partieles become altered in shape, presenting a ragged appearance at their edges, and that they, as well as the scrum containing them, became effused into the surrounding tissues. He states also, that colourless globules were detected in the large vessels, and that if the inflammation was intense, the blood became stagnant, and at length brown, and that some of the red particles became softened, opaque, and, finally, converted into globules of pus. Kaltenbruenner says, that if obstruction has not proceeded to stagnation, the motion becomes oscillatory, and that on the subsidence of the inflammation the usual movement of the blood is restored. its former activity being resumed; but if the inflammation continues, and the capillaries remain enlarged, he finds that they present a tortuous appearance, and Mr. Kiernan believes that little diverticula of varying shapes are thrown out by the capillary vessels, and that from these diverticula new vessels proceed.

It has been ascertained that the blood flows in greater quantity, and with greater force to and from a part that is inflamed, and that the arteries are enlarged, and pulsate with increased strength. Dr. Alison measured a number of arteries in inflamed limbs, and found that their dismeter was decidedly greater than that of the arteries in a corresponding uninflamed limb; this proves clearly that the flow to the inflamed part was augmented. Again, that there is an increased flow of blood from an inflamed part was shown by Mr. Lawrence. He bled a man who had an inflamed hand from a similar orifice in both arms, and found that from the arm of the inflamed side he obtained nearly three times as much blood as from the uninflamed one (in the same period.)

I have recently found that a stimulus applied to the web of a frog's foot, causes contraction, and diminished motion in the vessels to which the arteries lead, followed speedily by dilatation of the vessels, and an increased flow through them. If the stimulus applied be too powerful, it causes sudden enlargement of the capillaries and stagnation of their contents these vessels also became tortuous. arteries do not seem at first to partake of the increased calibre, but, in a few seconds, they enlarge and appear multiplied in numberthe blood gushes forcibly along them, and continue pulsating at the opening of the capillaries, which are so much congested as to prevent the passage of the arterial blood through them, and consequently it has to find its way along the adjoining vessels, which themselves become enlarged. It is remarkable, that although the force of the circulation goes off through the adjoining vessels, there is still some force applied to the natural channels and communicated backwards from the unadmitting eapillaries, which constant effort and repulsion, give rise to the oscillatory movement that I told you Kaltenbruenner has described. The result of this continued attempt at injection is to dilate the capillaries to a greater and greater degree, and if any vessels were previously so small as to escape notice, it is no wonder that they should now become dilated, and be rendered most easily visible. The deductions that we are necessarily led to make from these appearances, are, -1st. That no inflammation can exist without enlargement of the capillaries, and, therefore, that such enlargement, or, in one word, congestion, is one of the essential elements of inflammation; and 2dly. That

of the arterics leading to the capillaries of the affected part, or, in one word, without determination, which is, therefore, the other element of our subject. Now these two elements combined, viz., congestion and determination, will, if not soon relieved by secretion, flux, or hamorrhage, inevitably cause inflammation.

We may ask, why is there a retarded flow of blood under these circumstances? How comes it that the blood should stagnate? I must confess, gentlemen, that this is the sticking point, both to the red particles, and also to the physiologist and pathologist. Why, again, should the functions of the part be exalted if he circulation is obstructed? Some have imagined that the blood possesses a self-motory power, whereby it may be attracted and revived, and that in the case of determination, the vital fluid is determined to go to a particular portion of the system, and thus the particles become aggregated in certain situations.

It is rather a singular explanation, and evinces a very strong determination on the part of its author to get over the difficulty. For my own part, I have never seen any motions in the blood that might not justly be attributed either to the action of the heart, or to certain physical properties. I shall proceed with this subject at our next meeting.

ORFILA'S LECTURES ON ARSENIC.

Containing an Account of the different Operations performed upon the Body of Lantange.

Collected and Translated by JOHN DAL PLAZ, Pharmacien and Laureage of the School of Paris,

LECTURE VII.

Gentlemen,—If you were interested in the question of the purity of reagents, in that of arsenuretted soils, and in the solution of the following problem, viz., How can it be recognized that arsenious acid has been introduced into the digestive canal after death?—you will, I am persuaded, be still more interested in the

Question of Normal Arsenie.—It is two years since Monsieur Concrbe asserted in my laboratory, and in presence of Messes. Lesneur and Barruel, that normal arsenie existed in human bones: in October, 1839, Monsieur Concrbe again repeated this assertion, though somewhat different. He then said arsenie was developed during the putrefaction of bodies.

The first of these assertions was founded upon the following experiment:—M. Concrbe submitted to the action of Marsh's apparatus, some bi-phosphate of lime, which had been a long time in my laboratory, and carelessly preserved; from this he obtained real arsenical stains. Wishing to verify the results of the experiments made by this gentleman, I made several analyses of bones obtained from the pavilions of the faculty, and from these I obtained arsenic, which was inspected by Messrs, Bussy, Chevalier, and Dumas. I was convinced from this, that normal arsenic existed in human bones, and even announced it as a well-confirmed fact. I had quite given up the idea of pursuing this subject any further, when, in November last, I had to perform a series of experiments before a commission of the Royal Academy of Sciences. amongst them, were those relating to normal arseme.

My experiments were performed exactly as before; but, to my great astonishment, I was not able to obtain a trace of arsenic, and, after many fruitless attempts, I was obliged to request a delay of eight days; this was immediately granted. During that period I made numerous analyses, but all were attended with negative results; in no instance could I find arsenic in the bones collected for that purpose. In what way was I then to account for the presence of arsenic detected by the first experiments? I was certain all my reagents were of the utnest purity, but I was not convinced of the purity of the bi-phosphate of lime* which

had been used by Monsieur Couerbe; finally, I thought the bones I had operated upon at first, might be those of individuals who had been under arsenical treatment, such as is prescribed at the hospital Saint Louis, or again that they might have been the bones of a person who had been fed upon bread, prepared with wheat which had been limed with arsenious acid. I was, indeed, quite astounded, and did not know what to think.

I next procured the bones of a man who had lived and died in the department of La Somme, where the wheat for sowing is always prepared with arsenious acid; but these again yielded no arsenic. Seeing this I was induced to change my opinion upon the subject, and, after numerous other experiments, I sent a memoir to the academy; this has not yet been anscaled.

It results from what I have just stated, that arsenic cannot be detected in hones when these are in a normal state; consequently all objections resting upon arsenic in a normal state, and made in the interest of an accused, are of no value.

Messrs, Flandin and Danger asserted some time after I had made my researches, that arsenic could not be detected in the bones, the viscera or the muscles, however delicate the re-agents might be for detecting this poison. But is it possible, as it is stated in a letter published by Monsieur Concrbe, that this metal is formed during the putrefaction of soft parts of the body? Certainly not! The most delicate investigations have never been able to demonstrate this as true, and I shall content myself by citing an example to prove the contrary of this gentleman's assertion.

The body of a man suspected to have been poisoned by arsenious acid was exhumed by order of the judiciary authorities of Bourbou Vendeé the corpso was in a very advanced stage of putrefaction (it had been ten months under ground) when it was sent to us for examination, and, not-withstanding the most delicate means were resorted to, not a trace of arsenic was discovered. Now if it were true, as Monsieur Couerbe states, that this metal is developed during putrefaction, we ought certainly to have found it in this case.

We shall terminate the medico-legal question of arsenions acid, by endeavouring to refute the last two objections. The first is contained in the following question:—May not the arsenic found in a body have been administered daily for some time as a medicine? Gentlemen, I can affirm, if an individual under arsenical treatment has abstained from the use of this medicine two months, or even six weeks, previous to his death, not the slightest portion of arsenic can be detected in any parts of the viscers; all will have been voided by the urine. the perspiration, and by the stools. But supposing such a case really occurred, then the experimentor could only affirm that arsenic existed in the body, and if the tribunal wished him to declare whether he considered it a case of poisoning or not, be must be assisted by the medical man who attended the deceased during life. Being thus acquainted with the length of illness, the symptoms observed, the lesions found at the post-mortem examination, &c., &c., he may then safely draw a rigorous conclusion.

The second objection is one offered by Monsieur Paillet upon the trial of Madame Laffarge; this same objection might certainly again occur.

Monsieur Paillet wished to know whether the arsenie found in Monsieur Laffarge's body, might not have been derived from the minerals daily melted in his furnaces, whether the volatilized arsenic might not have been absorbed by the hugs during respiration: this objection has been much noticed, nevertheless it is of no value, and may be easily refuted.

In the first place, the presence of arsenic could not be detected in the minerals employed at the forges of Glandier; but admit for a moment that

then strain and wash the residue till the water ceases to taste acid. Evaporate the strained liquor, and when reduced to half its bulk, let it cool. A white sediment of sulphate of line will form, which must be allowed to subside. The clear solution must be afterwards decauted, and then evaporated until it has acquired the consistence of soft honey. It is then taken off the fire, and introduced into wide mouthed stoppered bettles.

arsenic did exist in combination with the minerals, it is certainly impossible the vapours could be inhaled; let us only reflect upon the mode of procedure for extracting the metal. The ore is strongly heated in a large vessel, which is placed upon a high furnace; the vapours produced could net influence Monsieur Laffarge, who was at the base of this furnace, probably at a distance of 100 feet from the exhalations, which certainly would not descend to him, but, on the contrary, would be carried off at a great height in the atmosphere. Even suppose again a small quantity of arsenic had been inhaled in this way, which is an absurd supposition, could the poison have been retained in the body for 55 days, during which time he never went near his furnaces? Most assuredly not. We know it would have been entirely voided by the urine, &c., &c.

I believe I have now stated all that is necessary concerning the medico-legal question of arsenious acid, which we have studied rather minutely, and I hope you have derived some beneficial information from what I have endeavoured to explain. I shall

now commence upon the

Symptoms observed upon persons poisoned by arsenious acid.—The first and most ordinary symptoms are, nausea, frequent and abundant vomiting, pain in the epigastrium, and occasional stools, particularly in those cases when vomiting is not very abundant. Gentlemen, I cannot proceed any further without saying I consider a medical man is to be much blamed, if being called to attend upon a patient taken suddenly ill, and labouring under these symptoms, he does not immediately ask himself whether it may not be a case of poisoning, but allows the ejected matter to be thrown away.

Unfortunately it seldom occurs that, if the patient is of a high rank, any one will for one moment suspect him of being poisoned, whilst if such symptoms are observed upon an individual of a humbler class, the medical attendant, and others as well, are even too often disposed to see in these, very rigorous indications of poisoning. But I now continue with the symptoms; cramps and convulsive movements, with fever and intense heat of the skin, soon arrive, and it a large dose of the poison has been administered, the skin may be covered with pustulous cruptions, attended with intense thirst; sometimes the patient becomes cold and insensible, the face becomes blue and much swollen, but the most remarkable symptom is the derangement in the circulation: the heart and pulse beat in the most irregular manner. Sometimes the convulsions cease, and are replaced by syncopes, or a false calm; the body becomes covered with a cold perspiration, the pulse gradually sinks, and finally the patient dies from prostration, Nevertheless, such does not always occur; death often takes place when the patient is a prey to the most violent symptoms, the convulsions may become more and more horrible, in fact he may die in the midst of intense suffering: it has even been observed that the body becomes of a blue colour, as in cases of cholera. This was observed upon Soufflard* who had taken a powerful dose of arsenious acid.

Another symptom to be observed is that of the urinary secretion; the quantity of urine found is not always considerable, generally the patient voids only a small quantity impregnated with the poison. In many cases the urine is red, and tinged with blood, and the secretion is painful; this last symptom was observed upon M. Laflarge. At other times the urine is abundantly secreted, and may be voided without pain. In nearly all cases arsenious acid exists in the urine, particularly when comiting and purging have not occurred. Another case has been cited, but this very seldom occurs. An individual has been known to have taken arsenious acid at eight or nine o'clock in the morning, and afterwards to have followed his usual occupations until Abree or four in the afternoon, when he has been suddenly taken ill, and two hours afterwards has died without vomiting anything. Let us now

Patholygical changes observed.—Death may ensue from arsenious acid without there being formed in

^{*} This salt is obtained by treating calcined bones, 12 parts, with 9 of concentrated sulphuric acid, and 20 of water. Let these materials be stirred together, and simmered for about six hours;

A prisoner who, to avoid the penalty of the law, swallowed a large quantity of arsenious acid during a sitting of the tribuual.

the digestive canal either traces of inflammation, eechymo is, or eschars, &c. This is not commonly the case; generally pathological changes are very evident, the mucous membrane of the stomach is inflamed as far as the coophagus, several of the folds of the stomach have a brown appearance, the other parts of the digestive tube being more or less inflamed.

If the poison has been introduced in the state of powder, eechymosis and even eschars may sometimes be observed. In the stomach of Therese Rigal, for example, there were found about fifty eschars, of the size of a pin's head, although she had vomited continually for nearly five days. In such cases the arsenious acid acts as a caustic.

The heart will generally offer red stains, of the nature of ecchymosis, such as may be observed in the heart of this dog poisoned by arsenious acid. Such are, gentlemen, the questions by the aid of which you may be able, without the least hesitation, to assert as follows: -

In the capacity of a chemist I have extracted the poison I now present to you, and in the capacity of a medical man I have observed the symptoms and pathological lesions which characterize poisoning by arsenions acid. I. therefore, affirm, that such poisoning has been effected. It now remains for us to discuss the best

Mode of treatment to be followed in cases of poisoning by arsenious acid.—The treatment may be divided into two periods; in the first, the poison should be attacked in the stomach by chemical agents, and then evacuated by purging or vomiting. The second period exists when you have not arrived in time to administer the counter-poison, consequently absorption has taken place, and however strenuous your efforts, the patient may die.

In commencing with the first period, we naturally ask ourselves if there really is an antidote for arsenious acid; but before proceeding any further, allow me to explain what may be understood by an antidote?

It is a substance capable of decomposing a poison, or combining with it, at the mean temperature of the stomach, or even at an inferior one, in such a manner as to constitute a new product, which can exercise no deleterious action upon the animal economy. There are two kinds of antidotes; 1st,-those which entirely annihilate the deleterious property of the poison; 2, those which diminish this property in a very sensible manner.

The first are those which, by any operation whatever, will form a new substance. For example, if an individual were to take a certain quantity of chloride of barium, and that sulphate of soda was administered immediately, there would be formed two new compounds—sulphate of Barytes, insoluble, and consequently inert, and chloride of sodium.

The second are those which do not transform the poison into a new product, but combine with it to form a compound possessing much less active properties. For example, an individual has taken corrosive sublimate, and immediately after, albumen is administered; there is then formed a new compound,* having a much less deleterious action upon the economy, nevertheless it is still sufficiently deleterious to cause death in case it should be allowed to remain in the stomach.

These facts being once well established, I again ask if there is an antidote of the first class for arsenions acid?

Unfortunately there is not: the peroxide of

iron, * which has been administered sometimes with success, can only be considered as an antidote of thesecond class.

This peroxide occurs under the 3 following states: 1. The anhydrous peroxide, commonly called colcothur.

2. The dried hydrated peroxide.

3. The hydrated peroxide in magnia or jelly. Of these three the two last are only fit to be used in cases of poisoning by arsenious acid; the

dried hydrate should always be administered in preference to that in magnia, for it is much more convenient, and can be given in large quantity

under a small volume.

It often happens that pharmaciens have no other peroxide of icon than the colcothar, which, in some cases, has been administered to patients. This even occurred during the illness of Monsieur Laffarge, and from that, certain persons were anxious to conclude that the arsenic we obtained was derived from the colcothar. This I will speak

The following are the results of numerous ex-

Half a grain of arsenious acid was boiled with half an onnce of the hydrated peroxide of iron in magma; in this case the quantity of iron was not sufficient to absorb the whole of the poison. The same weight of the dried hydrated peroxide, mixed with a sufficient quantity of water, was exposed with 12 grs. of arsenious acid, to a temperature corresponding to that of the interior of the stomach. and after a protracted contact of 24 hours, the whole of the poison was absorbed, forming arsenite of iron. If the dried hydrated peroxide of iron acts in such a manner, without doubt its administration will produce good results; it will enable the patient to wait until more efficacious means can be resorted to, as vomiting, &c. If this was not effected, death might still occur, although the action of the poison might be slow; the arsenite of iron thus formed is deleterious; it is attacked by the lactic and chlorhydric acids existing in the stomach, and these, combining with the oxide of iron, liberate the arsenious acid, which is then immediately absorbed. It is for this reason that a much larger quantity of the peroxide than is sufficient to absorb the poison, is recommended; the acids of the stomach, acting in preference upon the non-combined peroxide, do not attack that which is associated with the arsenious acid.

The peroxide thus administered must be evacuated by vomiting, effected by Tartar emetic, or by tickling the throat with a feather: a fresh portion of the peroxide must be again administered, and the evacuation repeated; afterwards operate upon the bowels with castor-oil. Should the patient be under the influence of a strong reaction, copious bleedings must be resorted to. Finally, have re-course to diaretics, by which the poison, if absorbed, may be expelled with the urine; for it has been proved by experience, that, in cases when animals poisoned by arsenious acid have voided a large quantity of urine, they have not died,

* This should be prepared in the following manner:-Cause a stream of sulphuretted hydrogen gas to pass for a long time through a filtrated solution of proto-sulphate of iron. This gas will precipitate all the arsenic, lead, magnesia, &c., which might have been associated with the iron salt, Then beil until the solution affords no smell of the sulphuretted gas, and allow it to stand for a day: after which time separate the precipitate by filtration, and evaporate the filtered solution until it has become fit to crystallize; when it must be allowed to stand in a cool place till the crystals are formed.

Collect these, and pour upon them a sufficient quantity of nitric acid to convert all the protoxide into sesqui-oxide. Then, dilute with distilled water, and by adding an excess of aqua ammonia, a brown gelatinous precipitate will be produced, which, after being washed for a long time with pure distilled water, may then be administered in cases of poisoning by arsenious acid.

It is by exposing this same gelatinous peroxide to a gentle heat, that I obtain the dried hydrated peroxide, which I recommend in preference to the gelatinous, on account of its being more convenient to administer in large quantities,—From Orfila's Lecture and Iron and its Compounds,

Such i, gentlemen, the mode of treatment I advise you to follow. It has been much criticized.

the bleeding, in particular, has been much condefuned. It has been said that, by bleeding, the life of the patient is unavoidably destroyed. Nevertheless, I can affirm, in nineteen cases out of twenty, when I have bled, the patient has recovered. English medical journals also mention many cases cured by bleeding. But as a substitute for this method, certain persons (amongst whom I may mention Monsieur Jacobini, in Italy, and Monsieur Rogetta, in France,) have tried an Italian mode, founded upon Monsieur Rasori's view of this subject. This gentleman asserts that the symptoms of arsenical intoxication are those of intense asthenia, produced by the action exercised by the poison whilst passing into the circulation, consequently the anti-phlogistic treatment is dangerous; to overcome the symptoms it is necessary to administer broth and brandy.

In the next lecture we shall see if any good can be derived from such a mode of treatment,-for my part, I look upon it as a dream.

IRISH INTRAMURAL INTERMENTS.

To the Editor of the ' Modical Time a.'

Dr. Sir,-I was highly gratified to perceive that your efforts for the extinction of "intramural interments' have been productive of so unexpected a result as the preparation of Mr. Mackinnon's Bill, yet it surprised me to perceive that by its clauses the operations appear to be confined to England. In this I may be wrong, and if so, you will excuse me for intruding! upon you. There is no part of the world in which burial grounds are more neglected than in Treland, and few places where the effects of such neglect have produced more ill consequences to human health and comfort than in its towns through which (speaking generally of the country) burial grounds are thickly distributed. It would, therefore, be a monstrous error in the application of this measure, if its benefits were not conferred upon Ireland—to which particular I beg the liberty of calling your attention. In clause $\hat{6}_i$, "the parochial committees of health" are composed of clergymen and churchwardens only, which I presume is a positive defect, inasmuch as there should be or ought to be, upon a committee, in whose hands so important a trust is reposed, some individuals whose education embraced the operations of physical nature upon the human constitution, and medical men are generally best informed upon these subjects—the addition, therefore, of a few medical men to these parochial committees of health, would be, in my opinion, an improvement.

On the interment of "eminent men" in "Westminster Abbey, or St. Paul's Cathedral," a few

words may not be out of place.

Under any circumstance the burial of mankind under the roof where living creatures so frequently assemble in numbers, is an evil, and ought to be abolished even in the case of "eminent men." great national building should exist in these countries for the deposit of their illustrious dead, and for the erection of proper monuments to their memories, which should be under the controll of Government only, Westminster Abbey is not the place for such deposits; besides monuments have been refused a place in that celebrated edifice. The late Dr. Ireland, for instance, refused to allow a monument to be erected to one of the greatest poets, next to Milton, which Britain ever had, viz., Lord Byron. To prevent such capricious exercise of power in individuals, and to separate the dead from the resort of assemblies of the living, I think the nation should erect an appropriate receptacle for such mementos, and for the remains of men whose lives have been sufficiently distinguished in its history. There is a man now living, whose name it does not become me to mention, whose glory requires no earthly monument to perpetuate, and whose remains when his country shall be deprived of his services, ought to be the first to render memorable such a memento of human greatness, and where succeeding warriors would desire a resting place. Hoping you will excuse this intrusion,—I remain, dear Sir, truly yours, W. R. Gore.

Cood Street, Linerick, Sept. 26th, 1812.

This compound is a combination of albumen, with corrosive sublimate; it is very little soluble in water, but is readily dissolved by an excess of albumen; consequently, the administration of too large a quantity of this substance must be attended with bad effects, in cases of poisoning by corrosive sublimate. This albuminous compound was formerly believed to contain no corrosive sublimate, it was thought that the merenrial salt was reduced by the albumen to the state of calomel; but this opinion is found to be quite erroneous. It is now generally admitted to be a compound of albumen and corrosive subhunate, which according to Monsiur Lassaigne, is composed of 93.55 parts of albumen, with 6.43 of the mercurial salt.

TO CORRESPONDENTS.

Vol VII .-- It is our intention to complete, in the present Volume, the course of twenty-four lectures by Professor Owen, on the Comparative Anatomy und Physiology of the Nerrous System-the course by Professor Serres (consisting of about 10 lectimes) on Organogeny-the course by Orfila, en Arsenic (the last lecture, but one, of which, we give this week)—with the control by Mr. Nottingham, on Operative Surgery. The lectures by Dr. C. J. B. William, and Ductor Soffern, will probably

Filtend to the met colume.

Mr. Atkinson.—The note, with the intimation referred to, was received, but the latter was forgotten when the paper came under consideration subse-The portion unitted, was emitted on the grand that the best answer to elijections are feets strongly evidenced. People do not so much ask, are such things possible? but, do they exist? The last demonstrated-logic tells us the first cannot be

Nulli Secundus .- We believe, but are not certain, that Mr. Dermott, the lecturer, was the ellfor and principal proprietor of the Medical Record. It extended to four er tire numbers. Our price and circulation must make all such speculations lasses.

Beta.—We have locard, from other quarters, of Mr. Jackson's fronzy. Our veriew of his work was of course just, but marked by much kindlenes for his inexperience and zeal; and, if in full possession of his mind, he would have felt himself under a serious chlication to us. The young man has cridently just enough of talent to make him conceited, and sust enough of active folly to make him an object of

anciety to his friends.

A Student.—We know of no cheaper mode of passing the first winter session than by confining the entries to hospital practice (3 years), say £26 10s .-Anatomy and Demonstrations, for the season, £5.5s.; Chemistry, £4.4s., and Materia Medica. These are all the courses absolutely necessary for the first session. Of course, without great reason, the pupil will not confine himself to these entries. The hospital practice should be entered to im-

A. T. H. T. - We desired once before that Dr. Wentherhead had anything to do with the editorship of the Medical Times. It consequence of a view to the contrary, we once more feel it necessary to asseverate our denial.

Mr. R. Mason. - This gentleman faraishes us with what he calls an important discovery. He considers the first cause of disease to be ignorance of the art of breathing. We have some recollection of an Irishman, who, extending the principle, more wittiln explained by it the phenomena of death. The second cause is, ignorance of the uses of salica! The third, of sleep. Month-breathing people are land, sirilly, &c.; mestri-breathins, healthy, &c. The rationale is the increased moisture produced by the latter mode, and which offers the satisfactory explanation of the we established tacts. "Sleep adds our author, " is produced by keeping the mouth open, consequently prevented by keeping the mouth closed, the saliva-pas ages, by the first process, being kept dry." Here is "Steep nt Hall" produced by a very simple process. He are provised further details, but must decline them, on the plea that those already sien are likely to completely aspease our readers' cariosity.

Mr. B. - Morus Mr. H. C. - Academicus - Caru Redivivus, — Investigator — Anti-Humbug, — Petrus—A Quark Doctor—An Owner of a Burial Ground —A. B. C.—A King's College Student-Auti-Toddite,-declined for want of

Will Serntator secretionize his own conscience intorn asking no to publish such details-and so unsupnorted-against an unassuming, and, we believe, etremaly well-meaning medical practitioner

Sigma sends us an authorized account of the offer made to him (an extremely experienced and well educated apathiciary, with the best recommendations) by a genth man proposing to have his services as an assistant. "After walking four miles," he says, " and waiting forty minutes, I had some converse with a party calling himself a gentleman, who lives not more than 100 miles from Finsbury, and has a branch establishment (a shop) not 50 from Bethnal-Green Road-and of their time-their knowledge, and their of patience, could justify our placing befor

was astonished at the liberality of his offer for such very trivial services as were required—the duties being merely 'superintending' pushing' the 'retail business,' from 7 morning till 11 night-dispensing the medicinesattending counter practice, casualties, and midwifery for a public institution—besides furnishing the house, PAVING THE TAXES, and feeding and clothing myself, - for THETY POUNDS A-YLAR!!! The poor assistant is a married man ton. Alas! for our respectable profession!

O.—We hope yet to give the conclusion of the paper

referred to. The delay originates in a breach of engagement, over which we could exercise no vsetal

H. B. W. sends no a strongly-written protest against the delay in the publication of "Torner's Chemistry" and "Copland's Dictionary." He is particularly anxions to know whether the fault lie with the anthors or pullishers, and, in either case, to have it remedied. Part 3, No. 4, of Farmer's work, was promised, he says, for Autumn, 1841, and is not get published, commencing the Winter, 1842!

Dr. Scoffern's Lecture, our Weekly Periscope, and Journals, are unavoidably postponed till next

Other correspondents will be answered next week.

ERR.II.I.

In consequence of the haste with which our first impression was sent to press last week, several typographical errors were left uncorrected. The page of "Medical Mems," binding in between pages 6 and 7, should have been numbered 7 and instead of 6 and 7. The other errors are so obvious, that they may be safely left to the cor- | fling, or mercenary character, as one mor rection of the reader.

THE MEDICAL TIMES.

SATURDAY, OCTOBER 8, 1842.

Quem vero arripuit, tenet, occiditque legendo Non unssura cutem nisi plena cruoris hirudo.

Di studet optatam cur a contingere metam Multa tulit, fecitque puer ; sudavit et alsit ; Abstinuit venere et vino.

THERE are three aspects in which the present session invites attention; the lecturers—the pupils—the corporations. Λ word or two on each.

Having very recently discharged our bile on the mode of election and general character of the attainments of our lecturers, we may just now leave them out of sight, to say something on a subject of, perhaps, more immediate importance—the lecturers' duties. And what are they? In manyalas! too many instances,-the ready answer for the libst, is to kesign. Numbers of them stand in the places of better men, capable of teaching higher truths,and to the extent of their unasked, unrequired, but not unobtrusive inferiority, are they accessaries to the virtual extermination of truths-and guilty agents in the mannfacture of mischiefs,-in one word they are negative, but real calamities, to their pupils and society. But it would be useless to ask from those we deal with, so stupendous an exercise of conscientiousness, requiring in its agency so impossibly large an absence of vanity and self-love. We must content ourselves with appealing to them, that if they will not give way to higher mental powers-they will at least make the best use of their own. Their pupils have a of our younger friends, the students, we virtual title to a certain stipulated portion wish our space, or a reasonable allowance

active industry and labour,—a title, which can only be impugned or disregarded with a proportionate want of fairness, good faith, honour, and common honesty. In science, as in everything else brought to market-there is a certain amount, and a certain quality, which is the purchaser's fair money's worth; and whatever is given less, or worse than what is thus reciprocally bargained for-is so much swindled There is this additional circum tance, how ever, in medical science—that health and life, and of immortal beings too, -hang or every step of the descending path of dimi nution or deterioration! We say then lecturers do your duty. Give to you lectures the importance which, under all eir cumstances (for evil, if not for good), mus attach to them. Give time to their carefu preparation. Adapt them to your audience in composition and delivery. Be punctua yourselves, and insist on regularity fron your pupils, and let the last week of you courses show as much attention to you duties as the first. To the gentleman, the man of honour, the last of these hints i uscless; for his sense of personal dignity will preclude his presentation of himsel before his class, as an inconstant, or shuf or less attentive, as he is further o nearer removed from the period of pecu niary remuneration. If we would lend force to our recommendations we would be lecturers to remember that no where that in medical teaching is honesty a wise policy. A session's well discharged dut tells on his own knowledge and skill-tell on his future year's classes-tells on hi standing with his profession-his practic among the public-his name-reputation —fame—everything!

But if neither personal interest-no high and seriously responsible duties have power over the lecturer-if he be deaf to them, chaim they never so wisely, th students will do but ill, who passivel submit to the wrong. There need be no insubordination, though that would be less evil than the injustice we are contem plating; the students have only peacefully to unite together, respectfully, but manfully to remind the lecturer by protest or round robin of his neglect of duty; if that fail, to send their signed statement to us for publi cation, and if the evil survive that step, to form themselves into a committee or asso ciation to try the matter publicly, by legally suing the pllinguing for Breaci or contract. This is a new-and pro bably startling recommendation-but it i justified by the glaring instances of negli gences to which students are too frequently subjected; and by a consideration on the evil consequences, which must inevitable arise out of them. An action at law, i tried in many cases which we have heard of, would be certain of success: and would do a world of good.

Taking a hearty interest in the fortune

which recommend steadiness, hard study, and perfect regularity to their warmest acceptance. We have watched annual wave after annual wave of students appear and disappear, and if one truth has been more prominent than another among our observations, it is that the student who will not work, and work regularly and hard, is in the position of one who has deliberately chosen to be for the rest of his life a knave or scamp. The raised qualifications at the Hall and College, whatever other qualities they may have, have certainly this, -that there is now no safe half-attention to duties,-they allow of no very continuous idleness-and we would suggest that gentlemen who are entering to this or that school, ought, in mere policy, at once to make their election between a career of entire dissipated seampishness—and entire healthy, steady application to their professional education. It would spare us much hypoerisy of study and save a wonderful deal of time. For ourselves, we have little more hope for the medical student, occasionally about town, drinking, smoking, billiard playing, and flashily dressed, than for the absolutely doomed rake. The same well known -well trodden path is before both, marked by some or all the common adjuncts; an irreparably ruined constitution—pecuniary embarrassments-rejection at the Hall and College—an empirical and impoverished practice - an alienated or impoverished family—enlistment in the army—life of degradation and misery,-violent death! One important step—the best guarantee of continuous steadiness,-is the student's comfortable inclusion in the domestic circle of some respectable family. A lone chamber after a day's hard study, gives the tavern and the singing-room an attraction, difficult to resist, save by minds of more than ordinary firmness, and enriched with more than usual internal resources. Whenever, therefore, this great moral and mental advantage can be secured by the studentour earnest advice to him is to clutch it. He will not, of course, in making this selection, overlook a due proximity to the hospital he attends. There can be no objection to moderate ambulatory exercise (which, indeed, the student will find essential to profitable study), but the distance should never make the walk an inconvenience. The numerous lectures demanded by the Hall, backed by the increasing requisitions of the College, leave little time to be spent on the trottoir. We conclude our hints to the students, with a warning which should be the motto of their note book,-the ornament of their room,-and as inseparable a companion, as the Phylaetery was of the Pharisco. EVERY MO-MENT MISPLNT-IS ONE CHANCE MORE FOR ILL FORTINE—an ill fortune that embraces the future fate of both practitioner and patients.

This session presents us with two features of striking importance, the diminution of metropolitan-the increase of provincial

these gentlemen, one half of the reasons ham school—the Webb-street or Grainger and has an extensive and aristocratic tractice school,-have each ceased to be; and the larger hospital schools have felt so much fear for their vitality, that they have taken this year extra pains to dazzle the judgmentand secure the support of pupils. Where will all this end, and what will be its effect on the London corporations? One thing is certain; that we may prepare for a brisk competition among the London schools-which will bring about a lower scale of prices, and a better system of medical appointments. The two great evils of medical education will thus have worked their own cure.

> We have been asked the probable effect which the requisition of an additional year of study, will have on the fortunes of the College of Surgeons ! Very trifling. The facilities offered by the provincial schools, will keep up, if not augment, the class of students; and an education at a distance from the College, will not tend to lessen the estimation of its diplomas. On the principle of "omne ignotum pro magnifico" distance will be apt to give an enchantment to the College, which those living near to it, as ourselves, would in vain endeavour to discern-or appreciate. Individually, however, many of the members of the Council are suffering this session from an unusual diminution of entry fees; and, the only consolation we can extend to them is, the expression of a hope, that their punishment may not extend to more than its present amount, -about the tenth part of their deserts. If, while they had the power, they had adopted a better system of government, London would be shewing a better list of schools, -and a larger class of students.

RECOLLECTIONS OF LIVING MEDICAL MEN.

ANTHONY WRITE, DR. BRIGHT, DR. HAMILTON ROL. A voyage up the Rhine prevented Probe completing his sketch of the medical officers of the Westminster Hospital as soon as intended. They sadly complain of the torturing state of suspended animation in which they have been

By a remarkable coincidence we find we finished our last sketch with a President of the College; we have now the pleasure of commencing with another. Anthony White is quite a different man from George James Guthrie, whom he succeeds. He i, in every respect, a perfect Antithesis. He is about 55 years of age -a stout, comfortable, farmerlike looking personage, of ordinary height, and of ordinary mien; a good-natured face, with rather a pre-possessing, intellectual forehead, upon which the perceptive and reflective organs are well marked. Tony Lumbkin, as some of his friends call him, from his eareless, and indifferent manner and attire, is generally considered a good practical surgeon, and has been a good operator.

In his public functions, lazy and indolent, as the Fat Boy in Pickwick, his visits to the hospital are few and far between. When, however, by an unusual and desperate effort, he opens his mouth, his clinique or oral instruction is invaluable. "He drops molten gold—he shoots pearls;" but such an occurrence is an era in the reminiscences of the

in the West-end, and in the neighbourhood of Parliament Street, where he lives, without even writing, advertising, or puffing for it.

In the time of Quen Anne, there was a class of Politicians, called 'Whimsicals,' who were never in one mood of mind long. In the medical profession there is a similar class now. with this difference—that the latter change and shift their opinions as their interest suggests:-the worthy Tony has been every thing by turns, and nothing long. His views were wisely influenced by the prospects that lay before him. When distant from the eminence which he now occupies, they were marvellously comprehensive indeed; but as he neared the object of his idolatry, they became very narrow and circumscribed; every step he took towards the road of his greatness, was a confirmation of the correctness of his opinions. "Some achieve greatness; others, have greatness thrust upon them." Not that his passive-ness—his good-natured easiness of disposition -his oriental homage to the powers that be, did not deserve some token of regard-some reward. His readiness to oblige his friendshis holy zeal to do battle for the cause of his company-insured his elevation in the rotation of collegiate honors. Some might suppose, that the absence of any literary or scientific labours, or of any intellectual evidence of high and commanding talent, on the part of the candidate, might prove an obstacle to his ambitious aspirations. In this seat of congenial dulness, 'a fellow-feeling makes us wondrous kind." A negative merit—a recommendation in their eyes -guaranteed the votes of the majority of the Council. In vain you search the records of the College-the Annals or Archives or medieine-for the name of White. No brochureno article, - no essay, -no octavo or duodecimo, exists to enlighten us or posterity upon the views which he entertained, and for which, his admiring and disinterested colleagues placed him in the post of honour and emolument. Hitherto, his talents have been latent. Let us hope that the genins which, has so long slumbered will be evolved, and that seizing the scalpel and tucking up his purple robes, he will engrave his name upon the columns of Fame.

It has been told of a certain cunning Pontiff, that he affected severe bodily indisposition to induce his brother cardinals to elevate him to the chair of St. Peter, and that when elected he threw off his debility and made them feel the vigour and energy of his rule. May we hope that Anthony, like his illustrious namesake, hath veiled his secret thoughts, and played only a secondary part, making it appear " that he had neither art, nor words, nor worth, action, nor utterance, nor the power of speech to stir men's blood," and, that having gained his object from the impression that his talents could not prove formidable to his triends, he may prove to his mistaken colleagues that he is made of sterner stuff, and wisely presaging the inevitable fate that awaits his obstinate and stupid comperes attempt to effect, and nobly dare to do that, which men of greater reputation, shrink from essaying; and which would tend to unite and satisfy and regenerate the profession, and place him for years at the head and front of all its honours? Ho finds division, envy, jealousy, and imbecility reigning in the camp, treachery ready to undermine its councils, and expediency, whispering concession of such a paltry nature, that it is only to be proposed, then to be spurned. He sees the council like a crazed ship's crew quarrelling in a storm, while their enemies are within gun-shot. Even this schools. The Hunterian school—the Syden- pupils. He has taken a degree in Cambridge, figure affords only a faint idea of the fatal infatuation of the indecision that exists in the Cabinet of the Monopolists.

Under such circumstances, he must be well aware, that a pertinacious refusal to recognise the right of the great body of surgeous to the principle of self-government, cannot be long withheld, and that it would be prudent to earn their good-willby liberal measures. As President, he can throw some weight into the scale, and, as a matter of course, will be consulted in the contemplated changes. We trust he will exert it in the right course. They say he is a geod scholar, and well versed in the literature of the ancients. In private life he is all benevolence and gentleness. His time has been all zephyrs and stutshine; and the truth of the moralist's observation is realised in him—

Semita certe,

Tranquilla per virtutem pater naica vitre.

Prosperity, if it be a test of talent, as many deny, has attended on his exertions. Among his other qualities, strict attention to his own interests is conspicuous. If we were to judge by this, we would hold him to be, provided he could rouse from the stupor of his nature, an able politician.

He has hitherto played a very subordinate

part in the politics of the College.

Aston Key has truly observed, that the member can hardly be said to have any connection with the College. It is no alma mater to him. He may long for its honours, but they are beyond his reach. He feels that no industry-no exertion of talent, can place them within his reach. Professor Kidd, that nobleminded, and spirited reformer, has urged similar arguments. And lately a very eloquent writer, and original thinker, Mr. Edwards, has remarked that the council in their diploma certify that the members have received a sound, moral, and professional education; yet they deny the judgment or right to elect those who are to govern them. Anthony White, if he he an honest man, must exert himself to do away with this iniquitous state of things. We trust we shall not have to say of him, "Honores mutant mores.'

Dr. Bright, the senior physician, the pupils say, and we agree with them, "is a very nice old fellow;" of quiet, retiring, gentlemanly manners. He has an unconquerable disake of being followed round the wards by the pupils. They are thus deprived of that instruction to which they are entitled, and for which they bave paid. He is a man of great reading, and his mind is deeply imbried with the enhabling spirit of the delightful literature of Greece and Rome.

He never lectures or communicates oral information. He has never appeared in print. The results of his extensive experience are lost to the world. He is totally unsuited to public duties. A rich field of observation is allowed to fallow. It is another instance of the mismanagement of this institution. He has an independent fortune, and resides in Manchester Square. He is generally esteemed by all who have the pleasure of his acquaintance.

Dr. HAMILI ON ROE, so called, to distinguish him from the many Roes and Does that abound in this overgrown metropolis, is the second physician. If we had lived in Pagan times, we would have carnestly invoked the aid of the Pierian maids before we would have dared to attempt to delineate this mystical compound of physic and divinity.

He unites in his own person the functions of priest and physician as of old. The Egyptian priests practised medicine, and revealed the results of their experience to each other in

hieroglyphies. Dr. Roe practises medicine, and preaches in the unknown tongues. It is an union, which some assert, is incompatible; Dr. Roe makes it answer very well. Le Clere discussed the question, whether medicine came immediately from God? Dr. Roe contends in the affirmative, and that he dispenses it. Such an exalted opinion of his ability, have his votaties, that they think "truths divine come mended from his tongue,"

That his knowledge doth attain, To something like prophetic strain,

He is about 42 years of age. And of a middle height; with an expressive goodnatured, and thoroughly Milesian face. He was born in the county of Wexford, and is "a good man of Ross." Mrs. Hall, in her tour describes them as a race of people, as shrewd, intelligent, good-tempered, and hospitable as are to be found in the whole island; qualities, which we believe, the Doctor does not belie.

His medical brethren charge him with not being quite professionally orthodox, that he is liable to appropriate to himself the results of the investigations of others. (some of which, have been the subject of warm reclamations) and, that he avails himself of the religious infirmities of his fellow-creatures, especially, of the softer sex: and that they have been made anxiliary to his success in his profession.

We believe him to act from conviction in this respect, to a certain extent. The organ of veneration towers over all the others. We ascribe his fanaticism to it. Before even Irving began his insane bellowings, the Doctor was being employed in laying down the trams of a line or railroad that was to carry only first class passengers to heaven at a great pace, by the most direct road; and in the shortest possible time. The Doctor was sole-director. But as there was more extravagance and novelty in Irving's hallucinations, the railroad was abaudoned. One of the doctrines was, that fortune and rank were especial marks of Providential regard on earth, and was a passport to favour in the next. It was a new system of evangelical selecticism. The Doctor, now that his great master is no more, holds forth to enraptured Countesses and Dowager Duchesses, who flock like geese to hear the male sybil cackle. These rhapsodical communions are well attended. He first relieves himself with certain inarticulate sounds awfully guttural; a species of unintelligent ventriloquism-then violent convulsive action, flesh, as it were, wrestling with the spirit - then in expressible rumblings are heard—the silence of the grave reigns—the spirit is speaking. Then the prophet, the plenipotentiary, the interpreter, expounds the will, and explains the meaning of the sounds which appeared so unintelligible. It is here the Doctor shines. He seems touched with Ithuriel's spear; he is warmed with celestial fire. The metamorphosis is so extraordinary, that his intimate friends can hardly recognise him. His action animated, the eye meteoric and instinct with life, kindles, dilates, illuminates his gestures, and spurning the elegant and dignified gracefulness of the stage or rostrum, like the inspired priestess of antiquity on her tripod, he rushes into intense earnesmess, earried away, with the whirlwind of his own eloquence. His words rush forth in a tornado; his frame shalles with convulsions; he is terribly in earnest; he is battling inwardly with the Prince of Darkness, and Nature is almost exhausted with the struggle. Anon he lessens in vehemence his fiery energy slackens-his strong devotion involved in pleasing phraseology thrills through the ladies. They are touched with his eloquent electricity. Ît is

souls suspended in the blood emotions of a varied character,—enraptures these dear devout susceptible tendrils of humanity and their sympathies, like conducting rods, carry off the excess of his inspiration, and relieve much the excited prophet.

PROBE

CURABILITY OF CONSUMPTION.

(To the Editor of the 'Medical Times,')

Continuing my practical cases, permit me to mention that in January 1837, Mr. Swain, between 50 and 60 years of age, a confidential clerk in the employment of Messrs, Betts & Co., was seized with influenza. Dr. Ramadge was called in to see him about six months afterwards, when his lungs had been pronounced tuber-culated by Dr. T. Davies, who had formerly been his apothecary in Whitechapel, and now regarded his case as hopeless. The only recommendation given by the latter gentleman was to leave town, which Dr. Ramadge disapproved of, as his legs were dropsical, his breathing extremely difficult; there were violent fits of coughing, in which large quantities of purulent matter mixed with blood were brought up. A simple change of air could not remove such a formidable train of symptoms. Without entering into details, it is only necessary to say, that the treatment was conducted on the principle of establishing a wholesome relation between inspiration and expiration, and of meeting constitutional symptoms by appropriate medicines. In about three months he recovered, and resumed the duties of his situation, after an absence of nearly a year.

Mr. A - Deputy-alderman of one of the wards of Cripplegate, consulted in 1834 Dr. Davies for consumption, who advised him to go abroad at the same time intimating to Mr. Stone, the general practitioner in attendance, that he would never recover. He wintered in Nice, and returned home early in the ensuing summer. From inquiries by Dr. Ramadge into the case and its past history, it was discovered that he had gone away with catarrh and a cavity, and returned with the latter only, losing thereby his best protection. He was at this time perspiring at night, and expectorating sanguineous purnlent matter. The treatment adopted involved the use of the mechanical process: his chest expanded, the cavity healed up, and all the symptoms disappeared gradually. Two years afterwards, he declared to Dr. Ramadge who was called in for an attack of influenza, that he had never enjoyed better general health, and that all traces of his old

disease had vanished.

A child named Ann Cooper, about six years old, residing near Bartholomew's Hospital, daughter of the sextoness of St. John's Church Clerkenwell, was in 1827, brought to Dr. Ramadge under empyema, which had made for itself an opening about two inches below the left nipple and discharged freely for several months, till she had lost at least two or three times her own weight. A cavity had been previously ascertained to exist in the summit of the left lung. Dr. Davies, on being asked his opinion, held out no hopes but merely laid claim to the credit of having seen many such cases, though they are of very rare occurrence. This child was frequently shown by Dr. Ramadge to his pupils of whom I was one, being considered interesting from its infrequency. She remained in stationary ill-health for many months till at length she was seized with measles, which our preceptor regarded as a favourable occurrence, as it would exert a beneficial influence on her old complaint. The result was that the catarrh which accompanies measles expanded the lungs; the chest, which before contagious animal magnetism. He holds their hardly measured twenty inches in circumfer-

^{*} Rather to lie waste, every days neglect being another stage of loss and deterioration.—Ep.

ze, in two months increased more than three hes, and the discharge ceased. I have ely heard that she is still alive and quite II. In his lectures at the London Mospital, . Davies was accustomed to say that he never ew but two instances of recovery from conuption, though some of his pupils menned that they had known eases abandoned him do remarkably well; and numerous tances such as those given above, were to found in the single locality selected.

My object in giving these cases with the narks attached, is not to present the names individuals, or their practice, under invious contrast, but to prove what really can accomplished by the conjoint powers of nae and art.

Pailanthropos.

STUDENTS' COLUMNS.

addition to the regulations of the various exaning bodies given late week, we present, at the prest of a correspondent, the following: y regulations may be seen in No. 152, Vol. 6.)

REGULATIONS OF THE ROYAL COLLEGE OF PHYSICIANS OF LONDON.

Every candidate for a diploma in medicive, on presenting himself for examination, shall oduce satisfactory evidence-

1. Of unimpeached moral character;

des of midwifery and surgery.

2. Of having completed the twenty-sixth year of his age; and

3. Of having devoted himself for five years, at least, to the study of medicine.

The course of study thus ordered by the College, nprises.—Anatomy and physiology, the theory practice of physic, forensic medicine, chestry, materia medica and botany, and the prin-

With regard to practical medicine, the College usiders it essential that each candidate shall ve diligently attended, for three entire years. ephysicians practice of some general hospital Great Britain or Ireland, containing at least e hundred beds, and having a regular establishent of physicians as well as surgeons

Candidates who have been educated abroad will required to show that, in addition to the full arse of study already specified, they have dili-ntly attended the physicians' practice in some neral hespital in this country for at least twelve

inths Candidates who have already been engaged in [actice, and have attained the age of forty years, t have not passed through the complete course study above described, may be admitted to exa-

nation upon presenting to the censor's board

ch testimonals of character, general and profesonal, as shall be satisfactory to the College The first examination is in anatomy and physi-ogy, and is understood to comprise a knowledge such propositions in any of the physical science have reference to the structure and functions

the human body. The second examination includes all that relates the causes and symptoms of diseases, and whater portions of the collateral sciences may appear

belong to these subjects.

The third examination relates to the treatment diseases, including a scientific knowledge of all

: means used for that purpose,

The three examinations are held at separate eetings of the censor's board. The vica voce part each is carried on in Latin, except when the ard deems it expedient to put questions in Engh, and permits answers to be returned in the ne language,

The College is desirons that all those who reve its diploma should have had such a previous ucation as would imply a competent knowledge Greek, but it does not consider this indispensa-; if the other qualifications of the candidate ove satisfactory; it cannot, however, on any count, dispense with a familiar knowledge of the tin language, as constituting an essential part of iberal education; at the commencement, there-

fore, of each oral examination, the candidate is called on to translate riva voce into Latin a passage from Hippocrates, Galen, or Arcticus; or, if he declines this, he is, at any rate, expected to construe into English a portion of the works of Celsus, or Sydenham, or some other Latin medical

In connection with the oral examinations, the candidate is required, on three separate days, to give written answers in English to questions on the different subjects enumerated above, and to translate in writing passages from Greek or Latinbooks relating to medicine.

Those who are approved at all these examinations will receive the following diploma, under the common seal of the College:

Sciant omnes, Nos, A.B. Præsidentem Collegii Medicorum Londinensis, una cum consensu Enciorum ejusdem, auctoritate nobis a Domino Rege et Parliamento commissa, examinasse et oppro-bàsse ornatissimum virum, T. S. et ei concessisse liberam facultatem et licentiam tam docendi quam exercendi scientiam et artem medicam, eidemque summis honoribus et titulis et privilegiis, quaeumque lac vel alibi Medicis concedi solent, intra anctoritatis nostrae limites frui dedisse. In enjus rei fidem et testimonium, adjectis Censorum et Registrarii chirographis, sigilum nostrum commune præsentibus apponi fecimus, dutis ex ædibus Colmensis Domini millesimo octingentesimo.

> (Signed) Censores.

STATUTES OF THE UNIVERSITY OF EDINBURGH RELATIVE TO THE DE-GREE OF M. D.

Sect. I. No one shall be admitted to the examinations for the degree of doctor of medicine who has not been engaged in medical study for four years, during at least six months of each, either in the University of Edinburgh, or in some other university where the degree of M.D. is given unless, in addition to three anni medici in an university, he has attended, during at least six winter months, the medical or surgical practice of a general hospital, which accommodates at least eighty patients, and during the same period a course of practical anatomy: in which care three years of university study shall be admitted.

Sect. II. No one shall be admitted to the examinations for the degree of doctor who has not

given sufficient evidence,-

- 1. That he has studied, once at least, each of the following departments of medical science, under professors of medicine in this or in some other university, as already defined, viz. :—anatomy, chemistry, materia medica and pharmacy, institutes of medicine, practice of medicine, surgery, midwifery and the diseases peculiar to women and children, general pathology, practical anatomy (unless it has been attended in the year of extra academical study allowed by Sect. I,)—during courses of six months; clinical medicine, that is, the treatment of patients in a public hospital under a professor of medicine, by whom lectures on the eases are given-during courses of six months, or two courses of three months; clinical surgery, medical jurisprudence, botany, natural history, including zoology during courses of at least three mouths.
- 2. That in each year of his academical studies in medicine, he has attended at least two of the six months' courses of lectures above specified, or one of these and two of the three months' courses.
- 3. That, besides the course of clinical medicine already prescribed, he has attended, for at least six months of another year, the medical or surgical practice of a general hospital, either at Edinburgh or elsewhere, which accommodates not lewer than eighty patients.

- 4. That he has attended, for at least six month, by apprenticeship or otherwise, the art of compounding and dispensing drugs at the laboratory of an hospital, dispensary, member of a surgical college or faculty licentiate of the London or Dublin Society. of Apothecaries, or a professional chemist or druggist.
- 5. That he has attended, for at least six months, by apprenticeship or otherwise, the out-practice of an hospital, or the practice of a dispensary, or that of a physician, surgeon, or member of the London or Dublin

Society of Apothecaries, 111. No one shall obtain the degree of Sect. 111. doctor who has not studied, in the manner already prescribed, for at least one year previous to his graduation, in the University of Edinburgh.

Sect. IV. Every candidate for the degree in medicine, must deliver before the 24th of March, of the year in which he proposes to graduate, to the dean of the faculty of medicine,-

- I. A declaration, in his own handwriting, that he is twenty-one years of age, or will be so before the day of graduation; and that he will not be then under articles of apprenticeship to any surgeon or other master.
- 2. A statement of his studies, as well in literature and philosophy as in medicine, accompanied with proper certificates.

3. A medical dissertation composed by himself, in Latin or English; to be perused by a professor, and subject to his approval.

Sect. V. Before a candidate be examined in medicine, the medical faculty shall ascertain, by examination, that he possesses a competent knowledge of the Latiu language.

Sect. VI. If the faculty he satisfied on the point, they shall proceed to examine him, either riva roce, or in writing; first, on anatomy, chemistry, botany, institutes of medicine, and natural history bearing chiefly on zoology; and, secondly, on materia medica, pathology, practice of medicine, surgery anidwifery, and medical jurisprudence.

Sect. VII. Students who profess themselves ready to submit to an examination on the first division on these subjects, at the end of the third year of their studies, shall be admitted to it at that time

Sect. VIII. If any one, at these private examinations, be found unqualified for the degree, he must study for another year two of the subjects prescribed in Section II., under professors of medicine, in this or in some other university, as above defined, before he can be admitted to another examination.

Sect. IX. Should be be approved of, he will be allowed, but not required, to print his thesis; and if printed, forty copies of it must be delivered before the 25th day of July to the dean of the medical faculty.

Sect. X. If the candidate have satisfied the medical faculty, the dean shall lay the proceedings before the Senatus Academicus, by whose authority the candidate shall be summoned, on the 31st July, to defend his thesis; and finally, if the senate think fit, he shall be admitted, on the first lawful day of August, to the degree of doctor.

Sect. XI. The Senatus Academicus, on the day here appointed, shall assemble at ten o'clock a.m., for the purpose of conferring the degree; and no candidate, unless a sufficient reason be assigned, shall absent himself, on pain of being refused his degree for that year.

Sect. XII. Candidates for graduation shall be required to produce evidence of their having conformed to those regulations which were in force at the time they commenced their medical studies in an university.

Candidates who commenced their university studies before 1825 will be exempted from the fourth year of attendance (Sect. L.) from the additional hospital attendance (Sect. II., Art. 3.) from the necessity of a year's study in Edinburgh (Sect. III.,) and from any attendance on clinical surgery, medical jurisprudence, natural history, military surgery, practical anatomy, pathology, and surgery distinct from anatomy.

Those who commenced between 1825 and 1831

will be exempted from attendance on general pathology, and also on surgery distinct from

Those who commenced between 1825 and 1833. will be required to attend only two of the following classes, viz. :-clinical surgery, medical jurisprudence, natural history, military surgery, pracfical anatomy.

And those who commenced before 1853 will be exempted from the attendance specified in Sect. H.

Arts, 4 and 5.

N.B.—The attendance on Midwifery in an university 'Sect. IL, Art. 1.) is required of all candidate».

KEGULATIONS OF THE ARMY MEDICAL SERVICE.

Candidates for the medical department of the army are required to produce the diploma of either of the Colleges of Surgeons of London, Edinburgh, or Dublin, and the following testimo-

Eighteen months' attendance at an hospital of celebrity, where the average number of in-patients is not less than one hundred; twenty-four months anatomy: twelve months' practical anatomy; twelve months' surgery, or (what is preferred) six mouth surgery, and six months military surgery; eight months' clinical surgery, a complete course of two or three lectures during the week; twelve months' practice of physic, or six months' practice of physic and six of general pathology; cight months' clinical lectures on ditto, the same as required in surgery; twelve months chemistry; six months practical chemistry; there months botany; four months' materia medica, three months' practical pharmacy, or apprenticeship five months natural history; five months' midwifery; five months' natural philosophy.

2nd. The candidates must be unmarried, not beyond twenty-six years of age, nor under twenty-

one years.

3rd. Candidates who have had an university collection, and have the degree of Λ, B or Λ, M , as well as that of M, D, will be preferred, but a liberal education, and a competent knowledge of the Latin and Greek languages, are indispensably requisite in every candidate.

4th. The greater the attainments of the candidates in various branches of science, in addition to competent professional knowledge, the more eligible will they subsequently be deemed for promotion. in the service; for selections to fill vacancies will be guided more by reference to such acquirements

than to mere seniority.

5th. The rank of physician to the forces, or assistant-inspector of hospitals, requires, in addition to the knowledge and experience to be gained in the regular progress of study and experience in the service, that the individual should be a fellow or licentiate of the Royal College of Physicians of London, or a graduate of the University of Oxford, Cambridge, Edinburgh, Dublin, Glasgow, Aberdeen, Lowlon, or of the Faculty of Medicine of Glasgow.

6th. Although the British schools are specified, it is to be understood that candidates who have received regular education in approved foreign universities or schools will be admitted to exami-

7th. With the exception of practice of physic and clinical medicine by one teacher, candidates must have attended separate lecturers for each branch of science,

8th. Before promotion from the rank of assist ant-surgeon to any higher rank, every gentleman. must be prepared for such other examination as may be ordered before a board of medical officers,

9th. Diplomas, tickets of attendance on feetures, and certificates of regular attendance by each professor or lecturer, must be lodged at this other for examination and registry at least one week before the candidate appears for examination, and likewise certificates of moral conduct and character, one of them by a elergyman, and that of the parochial minister is desirable. Baptismal certificates are required at the same time; if the parish register cannot be resorted to, an affidavit from one fact will be accepted.

10th. The certificate of the feacher of practical anatomy must state the number of subjects or parts dissected by the pupil.

11th, Certificates of lectures and attendance must be from physicians or surgeons of the recognised colleges of physicians and arrgeon in the United Kingdom, or of foreign universities.

Note: -All communications to be forwarded "unscaled" under cover, to "The Right Honourable the Secretary of War," with the words "army medical department" at the corner.

REGULATIONS OF THE LAST INDIA MEDICAL SERVICE.

Age .- The assistant-surgeon must not be under twenty-two years, in proof of which he must produce an extract from the register of the parish in which he was born, or his own declaration, and other certificates, agreeably to forms to be obtained in the Office for Cadets and Assistant-Surgeons, Military Department, East India House,

Qualification in Surgery.—The assistant surgeon. upon receiving a nomination, will be furnished with a letter to the Court of Examiners of the Royal College of Surgeous, to be examined in surgery, and their certificate will be deemed a satisfactory testimonial of his qualification; but should the assistant-surgeon be previously in pos-session of a diploma from the Royal College of Surgeon of London, or of the Colleges of Surgeon s of Dublin or Edinburgh, or of the College and University of Glasgow, or of the Faculty of Physsicians and Surgeons of Glasgow, either of them will be deemed satisfactory as to his knowledge of surgery, without any further examination. He is also required to produce a certificate from the cupper of a public he pital in London of having acquired, and being capable of practising with proper desterity, the art of cupping.

Qualification in Physic.-The assistant-surgeon will also be required to pass an examination by the company's examining physician in the practice of physic, in which examination will be included as much anatomy and physiology as is necessary for understanding the causes and treatment of internal diseases, as well as the art of prescribing and compounding medicines; and Dr. Hume will then require him to produce satisfactory proof of his having attended at least two courses of lectures on the practice of physic; and, above all, that he should produce a certificate of having attended diligently the practice of the physicians at some general hospital in London for six months; or at some general hospital in the country (within the United Kingdom) for aix months, provided nch provincial hospital contain at least, on an average, one hundred in-patients, and have attached to it a regular establishment of physicians, as well as surgeons. No attendance on the practice of a physician at any dispensary will be almitted.

The assistant-surgeon is also required, as a condition to his appointment, to subscribe to the Military or Medical Returing Fund at his respontive presidency, and also to the Military Orphan Society, if appointed to Bengal.

The assistant surgeon is required, by resolution of court of the 21st May, 1828, to apply at the Office for Cadets and Assistant-Surgeons for his orders for embarkation, and actually proceed under such orders within three months from the date of being pa-sed and sworn before the committee for passing military appointments. then be furnished with an order to obtain the certificate of his appointment, igned by the secretary for which he will pay a fee of \$5 in the secretary

General Castions,-1st. Notice is hereby given, that should it be discovered at the time the assi tant-surgeon is appointed, or at any subsequent period, that his appointment has been obtained by purchase, or agreement to pay any pecnulary or valuable consideration whatsoever, either directly or indirectly, when the appointment is completed, the assistant-surgeon will not only be dismissed and rendered ineligible to hold any situation in the East India Company's service, under the court's resolution of the 9th August, 1809, but all of the parents, or some person who can attest the the parties concerned in procuring the appointment surreptitiously, or in disposing of or receiving the land nieasures.

same under such circumstances, will subject themselves individually and collectively to a criminal proscention for a misdemeanor, under the Act of the 49th of George the Third, cap, 126; and the court of directors of the East India Company do hereby declare, that they will prosecute any person or persons who shall hereafter be detected in such illieit traffic.

2d. The as-istant-surgeons are desired to preent themselves to Mr. T. R. Clarke, clerk for passing cadets and assistant-surgeons, at the East India House, with their certificates, properly filled up and signed, by ten o'clock in the morning, or as soon after as possible, in order that they may have their nominations prepared against the committee meet, or the nominating director arrives-in failure of which they may have to wait for several hours, or to come another day.

If an assistant-surgion produces a false certificate, or the dates are found to have been altered for the jurpose of making him appear to be of a proper age, he is rendered ineligible to hold any

situation in the company's service.

IN ADDITION TO THE PROVINCIAL SCHOOLS CAVEN LAST WEEK WE HAVE BEEN SENT THE FOLLOWING TURFILL ANNOUNCEMENTS,

LIVEBROOK ROLAL INSTITUTION. -Anatomy, Physiology, and Pathology, Mr. Long. - Anutomical Demonstrations, Mr. A. Higginson. - Chemistry and Pharmacy, Dr. Brett, F. L. S .- Materia Medica and Il rapenties, Dr. Dungan,-Principles and Fractice of Medice . Dr. Scott .- Principles and Practice of Surgery, Mr. Banney, - Mulwifery and Diseases of Women and Children, Dr. Malins.
Marischal College and University of

ABERDEER.-TARRETT OF MEDICINE.-Anatomy (Elementary and Advanced Courses, Dr. A. J. Lizars.—Chemistry, Dr. Clark.—Materia Medica, Dr. Henderson. - Institutes of Medicine, Dr. Harvey.—Prietice of Medicine, Dr. Macrobin.—Surgery, Dr. Pirrie.—Mulwifery, Dr. Dyce.—Medical Jurisprudence, Dr. Ogston.—Hospital Practice-Daily at 12 o'clock.—The Infirmary contains upwards of 200 beds; and Clinical Lectures on Medicine and Surgery are regularly delivered by the

ROYAL COLLEGE OF STROTORS IN TRELAND. Anatomy and Physiology, 14. Jacob. Descriptive Anatomy, Dr. Hargrave, and Dr. Hart, -Surgery, Dr. Wilmot, and Dr. Porter,—Practice of Medicine, Dr. Benson and Dr. Evanson,—Chemistry, Dr. Apjohn.—Materia Medica. Mr. Williams. Midwifery and Discases of Women and Children, Dr. Beatty. - Medical Jurisprudence, Dr. Geoghegan. -Huguene, Dr. Maunsell. - Butany, Dr. Bellingham. -Natural Philosophy, Dr. Apjehn.-Comparative .Instancy. - Dr. Jacob,

ROYAL COLLEGE OF STRGEONS, LIPINBURGH. Nature ' Philosophy, George Lees, A.M., and Mr. Glover .- Anatomy and Physiology, Dr. Lonsdale and Dr. Mercer .- Practical Anatomy, Dr. Mercer and Dr. Lonsdale, - Anatomical Demonstrations, Pr. Mercer and Pr. Lousdale. General Anatomy und Physiology, Dr. Knox. - Chimistry, Dr. Fyfe and Dr. Reid -- Practical Chemistry, (Three Months' ('ourses) Dr. Fyfe and Dr. Reid, -Materia Medica, Dr. Seller and Dr. Douglas Maclagan.—Practice of Physic and Pathology, Dr. Craigic and Dr. Alexander Wood.—Climeal Medicine (Mondays, Wednesdays and Fridays,) Dr. Craigie.—Swig evy, Dr. J. A. Robertson, Dr. Handyside and Pr. J. Duncan, — Chideal Surgery, (Tuesdays and Thursdays,) Dr. Handyside,—Mid-writing, (Three Months' Courses,) Dr. W. Campbell, Dr. Marr and Dr. Mon. - Forensic Medicine, (Monday , Wednesdays, and Fridays.) Dr. Skae and Dr. Cormack.

We are glad to hear that Dr. Conolly, of Hanwell, the success of whose henevolent, and at one time thought, chimerical efforts, give him so many claims on the gratitude of the philanthropist is about to publish a work on the best mode of treating the insane.

The Court of Appeal has confirmed the decision of the Superior Court at Marseilles, excenting the prescriptions of physicians from the operation of the recent law of weights

Augustissimæ Magnæ Britanniæ Reginæ, dianissimoque regio illius conjugi Principi Alberto, celebrando felicum conservationes salutem, Dei trigesimi, Maji, 1842, Sacrutus, London: M'Gowan & Co. (Feldmann, M.D. Antore.)

"As good almost kill a man as kill a good ook." and not by a damning silence to be acessory before the fact to the as assination of ally one of the best books of its kind it has zer been our happy lot to poke our nose ito, we take the liberty of acting towards it a loco parcutis, and introducing the hopeful rogeny of the German urant to the hearts nd affections (need we add protection?) f the society frequented by the Medical TIMES.

Besides this general ground however, for toticing a book, which under ordinary circumtances, would be beyond the pale of our juisdiction; we may further claim the privilege on the principle that "Nihil medici a nobis ilienum est," and certainly the nihil cannot be alienum to us, which from the brilliant cocuscations of wit and the stupendous conflagration of genius, exemplified by one of our own brethren, tends to cast a halo of redeeming glory round the whole of that unfortunate profession so long adumbrated by the deen obscurity of the Bootia in Lincolns-Inn-tields, or the deeper darkness of the stygian pool in Blackfriars. Ever has it been our sacred pleasure to foster the talent which adds to our professional dignity and if need be to drag by a gentle force into the bright day of public administration, the shrinking genius which born for the world (if not by it) would possibly for ever waste its sweetness without our notice, in an obscure corner on a bookseller's shelf, or probably, less vagrant still, wrap itself up like a hibernating mouse in the contracted foldings of its own modesty, and there sleep out the long winter of its glorious discontent.

Let the disparaging critics be ashamed and flee, who say that Medicine and Parnassus are not akin-that professional latin is more canine than classical. We have had in former days an Armstrong, an Akenside, a Darwin and a Frascatorius; we have now a Wakley who composes English verses by the mile; and a Feldmann who writes Latin dithyrambics to a measure defying all powers of human calculation - prosodial or arithmetical - Yes, a Feldmann lives, and with him a Wakley, and if the ancient poets of our craft have any impudent notion of superiority, we should be glad to be favoured by a descent, to cast up aecounts with them, and get them obligingly to hand over to us the balance!

The events described in this poem took place on the 30th of May last, when some miserable urchin who had heard from some Chartist orator that he paid for the Queen, had a "pop at her" with as much nonchalance as he would at a ringdove us duly paid for at Chalk Farm. It appears to be a congratulatory hymn dedicated to her Majesty and the Prince. on their escaping on that occasion any necessity for the doctor's professional services-a proof we consider, of no mean disinterestedness. We said the poem appears to be a congratulatory hvmn, because, and berein perhaps lies the merit of the composition,—from the peculiar syntactical arrangement of the Latin which our poet adopts in his title page we cannot quite grasp the whole of his, no doubt, vastly comprehensive idea. We speak not in complaint of this obscurity of style and thought, which, (avoiding the "ass-nitur pannis" of Horace) pervades the whole Epic with wonderful uniformity; is doubtless originated in

mnus pactions Same Majestatis Victoria, the greatness of the subject. If our poet is obscure, so were the immortal Lycophron, and Apollo himself at Delphos " id est" when like Dr. Peldmann at home. Where such obsentity exists, the fault is in ourselves. We belong not to those envious critical dwarfs, who would oblige the great poet to reduce bimself and to become as one of those little ones. the toad with all its pulling is mable to emulate the lugeness of the bull, neither can the bull by any process of starvation or magic lose its nobility and dwindle to the littleness of the tosil

> Our poetic found, like Homer, his prototype, dashes "in medias res" with true poetic fervour: "Arma virumque cano," is not bad but the critic will be puzzled to demonstrate where hes it superiority to

> Principis excelsie Fasces, Sceptrumque Focumque Britannia cum periculo obfuscarent! canto Salvos Victricis Curules; quis solvet mihi Præcepta terroris Conjugis; aut tumidis Quis de montibus rapiet virides ornos?

Then follows a description of a procession to Buckingham Palace of the magnates of the land, the people, and detachments from all the nations 'from dusky Indus to the Pole.'

Jam ecce Duces magni, populi, frequensque viator

Buckingham protrudit iter:-

To use a vulgarism 'all the world and his wife,' proceed on this congratulatory visit merry youth and hobbling age, nobility and snobiliv, including of course both the Lord Mayor (civiens proses) and the muse Calliope (here flatteringly termed speciosa virago), a most amusing duet! while the rear is brought up by the poet himself, who (if we understand the matter) is drawn by the tumult,—pipe in one hand, and crook-or fragrant weed in the other, from his Arcadian pursuit of feeding lambs in St. James' or Hyde Park. His feelings, by a natural connection, now discharge themselves in a flood of culogium on British hospitality, and Britishpre-eminence, in which are not forgotten either Nelson or Napier; Cook or Villington, Newton, who, according to our author, heat the Chaldeans by "extricating the deform chaos," or the other

Celebresque Dracones !!!

Hectoreosque duces Regni celsosque Colossos, selectosque viros Patricome Albertus !- doctosque Solones!

We feel the beauty of this; a stopendousness booms out of the vast obscure. The "Dracones" we opine are the " l'oor-Law Commissioners," with a correct allusion to their "heetoring propensities." The "selecti viri" who follow, are of course select vestrymen; among whom, however, by a poetic deposit suberpos is ranked "Georgius ultimus quartus," as the author correctly renders the late George the IV. By the "Solons"must be meant, we presume. the Honse of Lords; or, our twenty- one friends in Lincoln's-1nn-Fields.

We thus see that there is nothing commonplace in this production; the subjects chosen are most poetically incongruous-the images most original—the metaphors most hold, e. g. Occulti Potosi tremnere recessus

Inque suis fulyum foveis perhacuit aurum. or this --

Sauciat abstrusæ turbnus penetralia terræ-Fresor-

But we must hasten to the gem of the poem. All scholars remember Homer's catalogue of the ships; or Virgil's list of Actaon's hounds in the Georgies; the enumeration of those important personages, Glaneus, Medori, and Theisiloelms by the former; and of Sergestas Gyas, and the brave Cloanthus, by the latter poet How often have these been admired? Yet how pointless and inartistic their introduc-

tion, when compared with Dr. Feldmann's " catalogue raisonee" of the political celebrities of the day, with which he concludes. For the benefit of our reader, we extract the presige-

Deus Te inspirabit—Tuis Consiliis — Quamquam Sagacissimus Baro Peel—Comes Aberdeen,

Nec non Palmerston, Russel, Stanley, Ripon, Graham,

Tantosque celebratos Duces, dirige, pacemque Refer Rectoribus Orbis - Omnes Te adorant. Ipseque Hame, loquax O'Connell panperes Patrice defendens, gandetone Salum Tuam, Incolae inbilatome Magna Britainna Cor.

We have thus far occupied our o'er wrought brain in evolving the matter of this poem; let us now look at the manner or mode of versification in which all these sublime centiments are expressed; -not the least remarkable feature in this extraordinary production. Horace, in his ode, landatory of Pindar, says of that hard-

Nova dithyrambos, Verba devolvit, numerisque fertur Lege solutis.

All this meant for the bold Theban of yore. applies with equal aptitude to the learned Theban of to-day, Dr. Feldmann, M.D. and P.F.C., We are bold to say that never, within our critical experience, did we meet with a poet whose master-mind so effectually freed itself from the trammels of prosody, and all ordinary rule of conventionalism. We note this partionlarly, because a less gifted, or less original mind, too timid to deviate from the beaten track, would, but too probably, have been content to have adopted, in a Latin poem, the humdrum and monotonous hexameters of which Virgil—(perhaps, unhappily, hampering his genins), constituted his (Eneid. The soul of our medical son of song is too dithyrambic in its nature to submit to rule. Like the untamed eagle, he must soar with the wild grace of nature, and the magic power of perfect freedom, or he flies not at all. In this spirit he has invented, a hexameter of his own, one of peculiar construction, ϵ , g.

Tales dum tractas excelsa Britannia Musas, Omnitus ergo oblivisceris periculum, place Populis, rogo, Tais Augustissimis Prolibus, Trementi Matri, dantque Tibi primas landes, Certeque, longamye vitam, palmasque Camacua.

M. Feldmann, M.D. and P.F.C., with a moral hardihood that marks him out for a great social innovator, has been the first boldly to come forward to shew his supreme contempt for petty grammatical concords (see his Preface and Epilogus), and to put his hoof upon the metrical laws. How glorious and consolatory to a lover of the Juvenile race are his perpetrations of what are vulgarly called "false quantities!" How felicitous the accomodative, the creative power of his genius which makes "frequens" a spondee! and "posse quam" a daetyl! "Nos Germâni non curâmes quantitatem," is a proverb; which wanted its cli macteric illustration till Dr. Feldmann wrote; and with his potent pen decreed the everlasting destruction of the sophistical and arbitrary distinctions of syllables into long and short! Catholic emancipation will go hand in hand down to posterity, with the deliverance worked by Dr. Feldmann, for the schoolboys of England; a hint for convening a meeting of the juniors of Eton, Harrow, and Westminster, to consider the best mode of acknowledging his public services, which we trust will not be overlooked. lu conclusion, we congratulate our Author upon his loyal effusion; he evidently possesses the true poetical diathesis. Like Pope, he lips in verse." The secretions of his gifted mind-to speak in the language of a modern school-are evidently tinetured by no prejudice in favour of pounds, shillings, or pence; his is

one of those works which have no chance of profitable appreciation, save from that portion of the human species which follows us posteriorly: and which, if no other book were written, would alone justify Sir Robert Peel's prolongation of the period of Author's copyright especially, if there could be any provision in the act, that the work shall be printed on paper, like that before us.

MEDICAL REFORM.

To the Editor of the "Miron at Times,"

Str.-1 have perused the judicious remarks of the experienced "Peter Anodyne," with great pleasure, and cannot refrain from expressing my entire concurrence in the opinion, that if the Apothecaries Act were fairly and fully carried out, the great body of medical practitioners would have but little to complain of.

The sale of nostrums, although a serious evil, both to the profession, and the community generally, is not so prejudicial to the interests of the former, as the host of illegal practitioners who are everywhere allowed to prey upon society. I imagine that you would be not a little surprised, accustomed as you are to view the subject, if you were to request your subscribers to transmit you a list of the number of these "quacks" infesting their own immediate neighbourhood. It would be seen, and that very conspicuously, that the Apothecaries' Company have justly forfeited all claim to the respect of its licentiates, and that they are, indeed, in another than a medical sense, mea of ' art and mystery, as they are y'cloped in their certificate.

In the small town wherein I practice, there are six practitioners, two of whom are legally unqualifted. These two individuals have each a parochial district assigned to them by the Board of Guardians; and one of them in particular is favoured by the patronage of an influential person, so that it would be exceedingly difficult, if not impossible, for a duly qualified practitioner to displace him. But, this is not all, for within the present month, I was called to visit a farmer in the country, who had been attended during his illness, by not less than three unqualified persons.

Now, if such be the state of this town and neighbourhood, with respect to those who practise medicine, may it not be suspected, that a candid avowal on the part of others, in other localities, would present a corresponding state of things; And, although I hope that such is not the ease. both for the sake of the profession generally, and the credit of the Apothecaries' Company in particular, I am tempted to exclaim, -ab uno disce omnes! I say nothing about prescribing and visiting druggists, although there are such in this town, as they possess only a very humble share of respect with the public, and that only among the lower grade; but I do say the irregular practitioners are worthy of attention, because they enjoy a share of confidence, sufficient in degree to enable them to carry on a very hierative business, which is of course, just so much taken from the income of the regularly educated surgeon-apothecary.

Such are the few facts I have been led to relate, by reading the letter of "Peter Anodyne." How far he is justified in attributing the cry for reform to restlessness, produced by lack of patients, I leave others to decide. But this I may be allowed to say, that to a "grey-headed old man," who has nearly completed his course, the question of reform or no referm, must be equally unimportant. We all know how men in declining years hug established customs, and even learn to love the evils they once deprecated.

I will, in conclusion, mention a suggestion that has often occurred to my mind. If the Apothecaries' Company would set themselves to work, like honest men, having the interests of the profession at heart, to remove the abuses universally felt, and which they have the power to do, they might, by appointing a competent, travelling inspector, to visit every corner over which their jurisdiction extend, do much, very much, to remedy the present aggricaed condition of the profession.

1 em, Sir, Your desdient Servant, A. LICESTIVES.

WEDICAL NEWS.

ALLEGED DEATH OF A LADY FROM POISON ADMINISTERED BY MISTARE.—A few days ago a lengthened inquiry was proceeded with before Mr. Higgs, deputy coroner for the city and liberties of Westminster, at the sign of the King of Prussia, in Lower John-street, Golden-square, into the circumstances attendant upon the death of a maiden lady, named Elizabeth Campbell, aged 44 years, residing at No. 19, Golden-square, who it was alleged had died from the effects of poison, On the arrival of the coroner fifteen of the residents of Golden square, &c., were empanuelled as juroes, and Mr. Austin appointed foreman, upon which they proceeded to the residence of the de cased lady to view the body, when the following evidence was adduced:-It appeared from the evidence of Ellen Joyce, the cook, and Mary Anne Mason, the housemaid, that the deceased and her sister, Miss Hannah Campbell, resided together at the house No. 19, Golden-The deceased had for some time been sonare. indisposed, and for several weeks had been confined to her bed; she was attended by Mr. John-ston, surgeon, of Beak-street, Regent-street, who saw the deceased on the forenoon of Friday, the 16th ult., and ordered her a table-spoonful of potash water diluted with a similar quantity of milk. Immedia ely after he had left, Miss Hannah Camphell asked the cook if she knew what potash water was, to which she replied in the negative, when she was desired to go to a chemist to procure the smallest quantity they would make. The cook accordingly proceeded to the shop of Messrs. Fowler and Co., chemists and druggists, No. 14. Brewer-street, and asked for a small quantity of potash water. The person whom she saw asked her what it was, but she told him she did not know; he then asked her if Miss Campbell was going to wash, but she again told him she did not know. He then told her she could have fourpennyworth, and she put a bottle she had brought with her down on the counter, and left it while she went over the way to a greengrocer's. return to the chemist's shop, a boitle rolled up in paper, was given to her, which, on reaching home, she gave into the hands of Miss Hannah Campbell who took it up with her to deceased's room. Miss H. Campbell then, in the presence of the housemaid, mixed a table-poonful of the stuff with an equal quantity of milk in a glass, and gave it to the decreased, who immediately she had swallowed it, exclaimed, "You have poisoned me—I am all on fire," and she appeared in verygreat pain. Mr. Johnston was instantly sent for, but before his assistant (Mr. Keys) could arrive, the deceased had, through the agony she was in, torn all her clothes off. He arrived in about five minutes afterwards and administered to her a draught, and subsequently some drops in water. On showing him the bottle from which the stuff had been poured, he immediately said, "Oh, dear, this is not the stuff Mr. Johnston ordered," and seemed very much agitated. On leaving the house he took the bottle and the contents with him. The bottle was labelled "Potash water," and bore also a label with Messrs. Fowler and Co's, names and address on it. Miss II. Campbell afterwards told the servants that the bottle contained prussic acid. Deceased continued to get worse, until the commencement of last week, when she rallied very much, but notwithstanding died on Thursday last, Mr. Francis Johnston, the surgeon, deposed that he had attended the deceased since the 9th ult. for an attack of inflammation of the membrane covering the bowels. In consequence of the great sickness she laboured under, nothing stayed on her stomach, and witness ordered her on the 16th ult., to have some potash water, telling her sister, who was at the time at the side of her bed, that it was an efferveseing beverage like soda-water, and offerred to write it down, so particular was he in his description; but Miscell, Campbell said it was not necessary. Witness onen left the house, and on his return home from Peckham, about three o'clock was informed by his assistant of what had occurred, upon which he immediately went to deceased's residence, and found her in hed, every thing having been done that could be, the poison having been extracted from her stomach, and the proper

antidotes were continuing to be applied. Foreman inquired if Mr. Johnston had seen the stuff that was sent by the chemist for potash water? The witness replied that he had. He then produced an ounce phial, containing a deep yellow liquid, and said the contents was a caustic preparation of potash, of a burning and poisonous nature, and was only used medicinally by drops in a diluted state. Witness had since learned to his surprise, that it was frequently sold by chemists for potash-water. The witness then produced a bottle of the real potash-water, as purchased at the shop of Messrs. Savory and Moore, the wellknown chemists of Bond- treet, which completely resembled both in colour and appearance a bottle of soda-water. Examination resumed: At the time the deceased swallowed the stuff she had a dozen lecclics on to lessen the inflammatory symptoms, but they became very much increased, and she got gradually worse, until, on the 21st ult., when witness expressed his fears very strongly to her sister, and advised her to have further advice. Mr. Copeland of Golden-square, and Dr. M'Leod, were accordingly called in, who recommended a continuance of the same medicines witness had prescribed, and Dr. M'Leod, continued in attendance until Monday last, when it was anticipated the deceased would recover. She apparently continned to improve until about four o'clock on Thursday morning, when a change took place and she died on the same day. Had since made a post mortem examination of the body, and had found, on examining the stomach, evidence of very extensive and old disease. There were two large sists and a mass of disease generally. The stomach was redder than usual, being ecchymosied in the texture. Witness had also tested the contents, Although he had then found sufficient to account for deceased's death, he opened the head and found a clot of blood in the brain, and, in witness's opinion, she died from apoplexy. The foreman inquired of the witness if that, in his opinion, had een caused by the effect of the poison she had taken? Witness said it was impossible to say, but from the effect she described it had upon her, as of her head going through the ceiling, it might have accelerated her death. The clot was about the size of a unt, and there was also effusion of serum. The sist he had described was an immense one, the slightest pressure on which might have caused apoplexy. - By the Foreman and Jury: The potash contained in the bottle produced, was what is called "liquori potasiae." A table-spoonful on an empty stomach would act as caustic and produce inflammation, but certainly, mixed with milk, it would be less powerful. It was generally used in bleaching, and was quite different to potash water. The latter was not kept by general practitioners, but was sold by chemists. Could not say that deceased's death had been produced by her having swallowed the potash. Had witness sent out that kind of potash he would have labelled it "Potash liquor-poison." Did not think when he ordered the decased potash water, that it was necessary to write it down, any more than he should had he ordered her ginger-beer. As a surgeon he would not have sold that kind of potash at all, unless it was diluted. - Mr. Fowler was then sent for, and having been cautioned by the coroner not to say anything likely to criminate himself, said he was in the shop at the time the cook applied for a small quantity of potash water. He asked her what it was for, but she said she did not know. She brought no bottle for it, and having again asked her if it was for cleaning paint, she replied in the negative; and although she said it was for Miss Campbell, she did not say that lady was very ill, neither did she ask for "efferveseing" potash water. That kind of potash being much used for cleaning marble or taking out grease, he thought it was required for something of the kind, as she asked for only a small quantity, and gave her the onnce bottle produced, which was the smallest quantity they sold.—By the Jury: Did not think sending the bottle without labelling it "poison," was rather a loose way of carrying on business, as there was nothing deleterious in it. If the whole had been taken, it might probably destroy life, Was in the habit of selling the effervescing potash water, but called acrated potasti water. knew an article like that marked poison, although

that quantity would destroy life. Had labelled it the same way hundreds of times; all chemists did the same.—The jury said they thought Mr. Fowler had not taken proper precautions to ascertain the object for which the potash water was wanted, and at their request the coroner ordered the inquestroom to be cleared.—After the lapse of an hour the public were re-admitted, and—The Coroner said the jury had returned the following verdict: - We find that the deceased died from apoplexy, accelerated by taking a spoonful of caustic potash water, instead of effervescing poinsh water, ordered by her medical attendant. The jury cannot but regret that the medical man omitted to write his prescription; and feel a strong conviction of the impropriety of the chemist selling deleterious liquids without a distinct label of Poison' thereon."

FOREIGN LIBRARY OF MEDICINE, SUR-GERY, AND THE COLLATERAL SCIENCES.

[Exclusively compiled for the 'MEDICAL TIMES," from French, Italian, and other Continental Periodicals.]

GERMAN.

KRAMER, Dr. W., Die Heilbarkeit der Tanbheit-On the Cure of Dumbness, 8vo. Berlin 4s. 6d.-HANKEL, Dr. W. G.—Experimental Chemie, 8vo. Halle, 7s .- BRUSSLER, Dr. W., Kinderkrankheiten On the Diseases of Children, Part 3, 8vo. Berlin, 3s. 6d. Fick, Prof. L., Lehrbuch der Anatomie des Menschen-Manual of Anatomy, Part I containing the Organic Form, 8vo. Leipz. 4s. 6d. — KIRCH-NER, Dr. E., Handbuch der allg. Therapie—Manual of General Therapeutics, 8vo. Kiel. 9s. — Krause, Prof. M. D., Handbuch der Measchlichen Anatomie
—Mannal of Hunnan Anatomy. Vol. I. Part 2,
containing the Anatomy of Adults, 8vo. Hannov. 48. 6d. — Berzehlus, J. J., Lebrhuch der Chemie; Vol. III. Organische Chemie, Svo. Quedl. 11s. (Vol. IV. and last, will be published shortly.)

* The German works above announced, may be had through Mr. Alexander Black, 8, Welling-

ton-street, North.

MEETINGS FOR THE ENSUING WEEK.

Oct. 11. Monday, 12. Thesday, 13. Wednesday, We train for Hospital Medical Society, a 16 past F P M. 16. Naturday, Mathematical Society, 8 P.M. Mathematical Society, 8 P.M.

ADVERTISEMENTS.

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THE MEDICAL TIMES

A Journal of English and Foreign Medicine and Medical Allairs.

No. 160. Vol. VII.

LONDON, SATURDAY, OCTOBER 15, 1812.

FOURPENCE.

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LECTURES ON THE ANATOMY AND PHYSIOLOGY OF THE NERVOUS SYSTEM.

By Professor OWEN, F.R.S., &c.

The transition from the class of fishes to that of reptiles, is evidently made by the lepidosiron, a true fish, according to its scales, its semi-cartilaginous semi-osseous skeleton, its double superior and inferior spines, its spiral intestinal valve, its heart and olfactory organs, but presenting, among fishes, the closest approximation to reptiles, in the development of the cerebral hemisphere, though inferior, as was said in the previous lecture, in the development of its cerebellum, to the vigorous and locomotive shark. In many respects, as in the vermiform figure of this singular fish, and in the almost abortive condition of its locomotive members, where we see the fin of the true fish reduced to a single-jointed soft ray, there is an evident degradation of the type, preparatory to its assuming that of the higher class. To use a figurative expression, Nature would seem here to take a step back, before springing to higher vantage ground.

The lowest organized of the true reptiles-in their general form and the low condition of their locomotive organs, in their combination, also, of lungs and gills, their lungs resembling the cellular air-bladder of the lepidosteus-more closely resemble the sauroid, than they do the higher-organized selacian fishes. These form the order of reptilia perenni-branchiata,

Another low-organized order, which manifest branchiæ, in combination with lungs only at the earlier period of their existence, as the toads, frogs, and salamanders, are called eaduce-branchiata,

The order of Ophidians, so called from the Greek word, *Ophis*, includes all the various tribes of venemous and non-venemous serpents.

The Chelonian order includes the turtles, terapins, and tortoises.

The Lacertian includes all the four-footed lizard-like reptiles which are covered with scales,

have simple ribs, and a double penis.

The Crocodilians, which are the highest-organized reptiles, are represented, at the present time, by comparatively few species of the largest of the lizard-like animals, called alligators and crocodiles, and which have their anterior ribs provided with a double head, which have a single intromittent organ, and are the only reptiles resembling the warm blooded class, in having the ventricles, as well as the auricles, completely divided, and, consequently, a four-chambered heart.

In the reptilian class of vertebrated animals, notwithstanding the very great diversity of external form the cerebro-spinal system presents less variety than in the class of fishes. There is always a greater predominance of the central masses, and especially of those which take no share in the origin of nerves. In the lowest organized reptiles, we find the medulla oblongata more simple, and smaller than in fishes, presenting a large and widely-open fourth ventricle, not more protected by a cerebellum than

the syren, the menobranehus, the frog, and th toad. In Ophidians, the cerebellum is of larg o size, but still inadequate to cover the 4th ventriele, Still smaller than most fishes, the Lacertian reptiles present another step in the development of the cerebellum; but here it is relatively smaller than in the crocodile or turtle, and in neither of these reptiles is it superior in size to the osseous fishes. In no reptile does it present convolutions as in the shark; yet, compared with the cold and vegetative condition of the procreative function in osseous fishes, to which the coitus is denied, the ardour of the sexual impulse in snakes and lizards, which are superior to all other creatures in the physical conditions for the full enjoyment of the act, present a marvellous contrast: with which the condition of the cerebellum, in the hypothesis of Gull, might have been expected to present some relation in its development. How its absolute, as well as relative inferiority in size, is to be reconciled with so marked an advance in the function over which it has been supposed to preside, it is for phrenology to determine. The cold-blooded, air-breathing, vertebrated animals are, however, sluggish to a proverb, and few there are that do not pass a considerable period of their existence in inactive torpidity. In none of these do we perceive any approach to the restless, ever-changing rapidity of course, often to be compared to an arrow darting from the how, which the famy tribe present to view, and which powers arrive at their maximum in the shark. It would seem, therefore, rather to the low condition of the locomotive energies in reptiles, that the small size and great simplicity of their cerebellum is to be connected.

The optic lobes, which are the next masses of the brain met with, tracing them from behind, forwards, in the class of reptiles, are in the perenne-branchiata species, likewise, of much smaller relative size, than in fishes. They are also single, and vesicular, as in the early embryonic stages of the birds and mammals, They are double, and of larger relative size in serpents and in lizards; still larger in crocodiles; and largest of all in the turtle; but are always smaller than the cerebral hemispheres. They are implanted, as it were, on the anterior prolongation of the medulla spinalis; are double; are united together by a raphe; and are most distinct behind. They always contain ventricles, which communicate together and with the third ventricle below. on which they rest. The pia-mater lining these ventricles, is very vascular; the optic nerve arises by two roots, one from the upper and inner, the other from the lower and outer part of each tubercle.

As we have hitherto seen the cerebellum rise and fall, as it were, with the corresponding exaltation or depression of the muscular masses, so the optic lobes, in their varying development, present a similar correlation with the varying conditions of the visual organs. They are large, for example, in most fishes, in which the outward organ of the sense of sight is of great size. The diminution of the optic lobes, corresponds, in the lower Batrachians, with the rudimental condition of the eyes in these creatures. The resumption, by the optic lobes, of their former proportions in the lower class, is coincident, in reptiles, with the progressive development of the organs of sight, and culminates in the turtle, which have the largest eyes in the class of reptiles.

It is highly remarkable, and furnishes much ground for reflection, to observe the constant preponderance of size of the cerebral hemisphere over all the other parts of the brain, in all orders of reptiles. The cerebral hemispheres are long, and larger than the optic lobes in the Batrachian and Ophian reptiles; they increase in breadth in the peaceful herbivorous tortoises in the miximoid fishes. Such is its condition in and turtles; acquire their greatest breadth in the of Dinan.

erocodile, which is, bowever, not more combative or destructive than the carnivorous, sabre-toothed, varanus lizard The base, or posterior part of the hemisphere, hardly reaches the optic lobes in the lower Batrachiaus, but does so in the higher reptiles. The apex or anterior part of the hemisphere, is prolonged into a hollow canal, and sometimes swells into a small olfactory ganglion. The hemispheres are distinct from each other anteriorly, but are united posteriorly by a commissare, like the soft commissare. They are hollow, the inner surface of the ventricle is highly vascular; its walls are thin; at the anterior and inferior part of the ventricle, there is a small coninence. These ventricles communicate with the third ventricle, which passes downwards to the infundibulum, and upwards to a vascular, pineal canal, the walls of which are not thickened by glandular matter.

The relative weight of the brain to the body does not hear any ratio to its state of development, but is chiefly influenced by the bulk and weight of the species. Thus, in the light and slender lizard, the weight of the brain to that of the body, is as I to 160, whilst in the erocodile, which has, unquestionably, a much better developed brain, it

is as 1 to 8000,

With regard to the habits of reptiles, and to the distinct and energetic manifestation of these as elements for testing the possible relationship of any particular portion of the supra-ventricular masses, called organs in phrenology, with such manifestations, we have to observe, that so far as is known, the instincts, appetites, and physical phenomena of reptiles are few, simple, and well marked; as a general rule, reptiles are carnivorous, and take their food alive. Certain torteises and turtles, the iquanos amongst fizards, are herbivorous. Come of the carnivorous lizards chase their prey. The common green lizard may be said to be astute. The chlamydosaurus, and some more common sorts of lizard, threaten and offer battle when alarmed. It is not in the outer or lateral parts of the corebral hemisphere in the predatory and combative lizard, that we find the corresponding developments. Their brains are much nurrower than in the timid turtles.

All reptiles swallow their food gluttonously. Some live together, but there are no regularly organised communities. No reptile manifests any care or fondness for its offspring, unless, indeed, the vague tales of the viper swallowing its brood and disgorging them unhurt when the danger is past, be true. At any rate, the film of cerebral matter, forming the posterior wall of the cerebral ventricle, is relatively as thin in the viper, as in the crocodile, which is stated to watch the shores on which its eggs have been deposited, allured by the blind instinct of preying on its newly hatched progeny. Whether the very low development of the part of the brain, to which the inaternal instinct, in regard to the care of her offspring, has been supposed to reside, relate to the almost complete absence of that instinct in the crocodile and other reptiles, we shall, perhaps, be able to determine, by examining the condition of the so called philo-progenitive organ to the class of birds.

Symptoms caused by Canthabides.—An attempt to poison was lately made at Eyran (Ille et Vilaine), on two young girls, one aged 22, the other 14, servants to an innkeeper of that town. A tinker named N., who occupied a room near that of the two girls, mixed with their food some powder of cantharides, doubtless hoping to accomplish some abominable design, aided by the properties attributed to this powder; but the violent colics which supervened, soon disclosed the eulpable project of N., who has been committed to the prison

LECTURE INTRODUCTORY TO COURSE OF OLOGY.

Its PROBERT HUNTER, MD., Lecturer on Anatomy and Physio-gy, Westminster Hospital Medical School.

GENTLEMEN,—In the ensuing course of lectures it will be my sincere and anxions endeavour, in conjunction with my respected colleague, to lead you into a knowledge of the art and science of anatomy. The term anatomy, as you probably all know, literally means dissection-a term that refers rather to one of the modes of investigating the science than to the nature of the science itself. But the term anatomy in this literal and restricted signification, expresses very imperfectly the importance of the subject we are about to investigate. Anatomy is properly the science of organization, and how many topics of overwhelming interest and deep study does the word organization imply! The world we inhabit may be said to consist of two kinds of matter only, that which is called unorganized or dead matter, and that in which a vital force, a principle of vitality, exists, and from the complexity or peculiar arrangement of its component elements, takes the name of organized matter. Organized beings then form one of the two grand divisions into which all material existences may be arranged. The science of organization is thus necessarily of great extent, for it includes the whole domain of animated nature. It leads to a knowledge of the component parts and intimate structure of all living beings, vegetable as well as animalit conduces to scientific and just principles of classification among these beings-it gives an insight into the causes of the varied operations external and internal-mental and instinctive-as well as corporeal, which such beings display. It throws a blaze of light upon the nature and treatment of diseases incident to organized structures, and has even been made the stupendous instrument of determining the successive changes to which "the great globe itself" has been subjected since its first formation.

Although the structure and organization of man as a branch of medical study will chiefly occupy our attention in the ensuing course, still our investigations will necessarily take a wide and very exten ive range. The structure of man cannot be fully or satisfactorily illustrated by investigations exclusively confined to the human structure. This remark may appear parodoxical, but it is, nevertheless perfecely just, for many of the organs of which man'is composed, exist in a higher state of development in some of the inferior animals than in man, and it is only where the organs are found in the highest structural perfection, that their uses and importance in the animal economy can be fully recognised or appreciated. It is obvious, therefore, that in investigating the structure of man we must necessarily refer to the structure of other animals, and our deductions from this source will be neither few nor unimportant. The structure of man, besides, includes all the varied and remarkable changes that take place, from the almost inappreci-able atom by which he commences his career of existence till be has attained the full measure of his development. But these conditions, which are fleeting and evanescent in man, are fixed and permanently stamped in the various kinds of inferior animals; so that by studying the modifications of structure as found in these animals, we study, and that under favourable circumstances, the changes of form and structure incidental to human develop-

That you may be enabled to form some idea of the subject we are about to investigate, I shall place before you a brief outline of the principal topics that will occupy our attention in the ensuing course. In studying anatomy the pupil is too apt to be contented with a knowledge of the descriptive anatomy of the human body. If he can enumerate the bones and all their processes, if he can tell the e igin, insertion and uses of all the muscles-if he con name the blood-vessels and their principal branches, and haply condescend upon the relative situation of those vessels concerned in the capital operations of surgery -it he can describe the situation of the viscera, and comprehend the structure or he organs of sensation, he is too apt to conceave that his knowledge of anatomy is completed. But, however indispensable all this knowledge may !

A be, it constitutes but a small part of the science of ANATOMY AND PHYSI- organization. That science takes cognizance of all the primary tissues or textures that enter into the formation of organized bodies-the combination of these textures into organs, by the assemblage of which an animal body is formed-the physical and physiological properties, and relative situation of these organs—the modifications of structure that exist in the organs of different animals—the changes of structure which the organs undergo during the process of development, and lastly the principle on which all animal bodies are formed and developed.

The science of organization takes cognizance, as I have already hinted, of vegetable as well as animal structure, and these two kinds of living matter do not differ so much as might at first view be imagined. The vegetable tribes display organs and functions that will bear comparison with the corresponding organs and functions of the animal part of the creation. If in vegetables the organs are less developed, a greater development is not required, as these beings are fixed to the soil on which they subsist, whereas the animal tribes are so constituted that they must seek for nourishment which is often at a distance, and consequently must have powers and capacities for searching it out, for distinguishing it from what is imputritious or baneful, and for appropriating it when found to the wants and exigencies of their systems. We shall confine ourselves in this course to animal organization, and from what has been already stated you can form some idea of the extensive nature of the subject, into the investigation of which you are about to enter. So important, indeed, is even this restricted subdivision of anatomy viewed, that it has been still farther divided into distinct branches, and these treated as independent subjects of scientific pursuit. Thus we speak of anatomy as general and special, human and comparative, descriptive and surgical, normal and pathological, and philosophical or transcendental. Although all these branches, to a greater or less extent, are included in the anatomical department of every well conducted medical school, yet in this, and other schools, it has been found convenient to investigate the subject under a two-fold aspect—that of practical and that of theoretical anatomy, or under the less objectionable titles of descriptive and of general anatomy, a course of prelections being devoted to each department.

The descriptive and practical course will be found to embrace the following most useful and indispensable branches of study:-1st. A minute description of all the parts of the human body, or what may be denominated descriptive human anatomy in all its details: 2nd., relative, regional. or surgical anatomy, or the relation which the parts previously described bear to each other in position and in reference to the operations of surgery; and 3rdly, practical anatomy, or the method of investigating the structure of the human body by dissection. On these subjects it is unnecessary at present to dwell, as my respected colleague at the appointed time will commence this important division of our subject, and bring the matter fully under your observation.

The subject which falls to be discussed at this hour of lecture, will be found to be of a deeply interesting and philosophic character; for it will combine both anatomy and physiology; and the anatomy introduced and discussed at this hour will be of a different kind-of a more general nature-referring more to intimate structure than that given at the hour of demonstration, anatomy which we shall introduce to your notice at this hour, will have a special view, I had almost said a constant reference, to physiology. So much, indeed, will anatomy and physiology be carried hand in hand in this course that we might designate the course as one of physiological anatomy. You all know the difference between anatomy and physiology; you know that anatomy has a reference only to structure and physiology to function; that anatomy is the science of organic structure and physiology the science of organic action or function. The line of distinction between these two kindred departments of science is thus easily drawn, but the relationship is, notwithstandean hardly suppose the one science existing without the other, and most assuredly you will find that they can be investigated most easily, pleasantly, and effectually in conjunction and in combination.

In this course the physiology will hold a prominent part, and what science can be named that comprehends so many fascinating subjects of inquiry as physiology? We contemplate with a sublime pleasure the working of a muchine like the steam engine, but in the operations of an animal body there is more to admire than in all the complicated movements of that transcendant effort of human genius. A steam engine is nothing more than a philosophical and happy combination of mechanical powers; but although there is much in an animal that is purely mechanical, there is also something that mechanics alone cannot The human body is, no doubt, a explain. machine of exquisite mechanical structure, but it is also a living machine, and the vital properties of its various tissues and combinations of tissues lead to loftier and more refined investigations than those to which mechanical science conduce. Can we look with apathy at an inferior animal waking from its sleep, springing as it were into new existence, exhibiting locomotive powers as if under the influence of magic, revelling in the full enjoyment of all its senses and displaying the other attributes of its nature? Or contemplating the extraordinary capabilities of man, who, besides displaying those powers that arrest attention in the inferior animals exhibits likewise those sublime, I had almost said incomprehensible, moral. and intellectual endowments which raise him so far above every other animal, and fit him for purer pleasures and a higher destiny? Can we contemplate these capabilities, I say, or come to the investigation of such sublime mysteries without emotion? Man is physiologically a living miracle of nature, and were he not so frequently before our eyes would be viewed as the most astonishing of things.

As this course will embrace anatomy as well as physiology, and as anatomy or structure necessarily lies at the root of all physiological enquiry, as it is the point from which this enquiry must proceed and to which it must return, we shall be thus led to an extended survey of animal structure and organization, a survey which may be said to comprehend the five following subjects of anatomical study :-- 1st. General anatomy, or the anatomy of the primary tissues of the body.-2nd. Special anatomy, or the anatomy of the organs and systems of organs formed by the union and combination of the primary vissues .- 3rd. Comparative anatomy, or the peculiarities of structure which exist in the corresponding organs of different animals or groups of animals as compared with the human organs.—4th. Developmental anatomy, or the investigation of the changes which each and all of the organs undergo from their earliest formation to their full growth: and lastly, philosophical or transcendental anatomy, or the investigation of the fundamental type or model upon which animals and their various organs are formed. Permit me to make a few remarks upon each of these topics.

1. Of General Anatomy.-This appellation is usually given, as I have already hinted, to that department of science that treats of the primary or elementary tissues that enter into the formation of the more complicated parts of an animal body. Every part of the body is more or less of a complicated structure. In the skin, for example, hesides the three fundamental layers, the cutis, the rete mucosum and the epidermis, we find a numerous assemblage of arteries, veins, lymphatics, nerves, sebacious follicles and hairs, all united in a determinate manner, by cellular membrane, so as to form a sensitive and protecting envelope for the whole body. In this simple-like membrane, then, we have a great complexity of structure, and in some organs, as the eye and its appendages, all the textures of the body are congregated. The object of general anatomy is to unfold and display these textures in their simple and uncombined state and to ascertain their peculiar physical and physiological properties. To Bichat we are ining, so close and infinate between them, that we debted for the first satisfactorily systematic and full

description of these textures and, such was the ability he brought to the undertaking, that not-withstanding the eminent men that have followed him in the same track of investigation, it may be justly questioned if any important additions to general anatomy have been made since the time of Richard

The prinkry textures of the human body, according to this authority, are twenty-one in number, and that they may be the more easily comprehended, we shall arrange them into two classes. First, the generally diffused textures; and, secondly, the particular tissues, or those found in determinate parts only of the body. In the first, are included the cellular, the nervous, the arterial, the venous, the exhalent and absorbent tissues; and the second includes tissues of the following denominations: the osseous, the medallary, the cartilaginous, the fibrous, the fibro-cartilaginous, the muscular, the mucous, scrous, synovial, glandular, dermoid, epiderm•id and pilous. The import of these terms, we cannot wait, at present, to explain, far less to enter upon a description of the tissues themselves; we may, however, be permitted to say, that the generally diffused tissues, as the name implies, are found, in a greater or less degree, in every part of the body, so that could we insulate completely any one of these tissues, it would present an exact resemblance to the general form of the body from which it was taken. We might, therefore, consider the generally diffused textures, as the nidus, in which the special textures rest and are incorporated, or we may view the more special textures as so many pieces of the frame-work of the system, and the generally diffused tissues as their connecting media, and supporting and vivifying apparatus.

Of these tissues, three are viewed by many anatomists as fundamental, existing in all animals, and essentially different in their physical, chemical and physiological properties; these are the cellular, nervous and muscular. More lately, the German physioligists, Schwam and Schladen, have demonstrated, that all the textures not only originate from ulcerated cells, but that a striking similarity, if not an identity of structure, exists in the originating cells of animal and vegetable organizations.

As text-books of General Anatomy, I can recommend the Anatomic Generale of Bichât, an original work of transcendant ability; also, the Elements of General Anatomy, by Beclard, translated and edited, by Dr. Knox, which, though written with less eloquence and originality, is a superior production to the other, in the condensation [of facts, and in reference to sources of information.

2. Of Special Anatomy.—The study of the individual organs and systems of organs which exist in any animal body can only be successfully prosecuted after some knowledge has been attained of general anatomy. Every organ consists of an assemblage of simple or primary tissues arranged in a peculiar but determinate manner; but it is obvious that our knowledge of the structure of any organ, or indeed of any compound substance, would be very imperfect if we were imacquainted with the simple ingredients by the union of which the organ or compound is formed. General anatomy embraces principles that are applicable to the whole of the animal creation, for the primary textures of all animals are alike; but special anatomy is as diversified as the species of animals that inhabit the globe. The special anatomy on which we enter in this course, is that of man, and from its superior importance to you, as students of medicine, will constitute a large proportion of the course.

Special human anatomy is the science that treats of the situation, form, weight, colour, and consistency as well as internal constitution and structure of every organ of the human hody. The branch of science thus shortly defined, is also sometimes denominated descriptive human anatomy, a department which will be considered in all its bearings as we have already stated, in the other and demonstrative course. But the special anatomy of man, which will form a part of this course, is essentially different from the other, both in the arrangement followed, and in the object proposed. In the demonstrative course we shall

follow an arrangement purely anatomical; the descriptions will be circumstantial and minute, with occasional references to the practice of sur-gery; but in this course we shall follow an arrangement based on function; our descriptions will be more general, and physiological disquisition will take the place of dry anatomical details. In conformity with this plan, we shall view all the organs, numerous though they be, of which man is composed as arranged into three classes:-First, Organs of relative life, or those organs which conneed man to external narure, and which cubble him to appreciate and enjoy the relationship in which he is placed. Second, organs of untrition or orgamic life, or those organs that preside over the internal, vital, or organic motions and operations of the whole system. Third, organs of reproductive life, or those which conduce to the continuance of the species. By the combined action of these organs man is formed, grows up, and displays in full vigour the powers and energies of his

The organs of the first class, or those of nutritive or organic life, are immerous, and exceedingly complicated. They may be said to preside ex-clusively over those internal or organic changes which are in incsesant operation in the living system, and on the existence of which vitality itself may be said to depend. By the combined action of external and internal causes, the constituent parts of every living organ are soon rendered useless; these decayed parts, therefore, require not only to be removed, but new particles added to supply their place. A constant series of depositions and absorptions are thus going on in every organ of the body, and at every point of every organ, and these two conditions of matter may be said to constitute the ossence of vitality. When these two phenomena exist in any organized body, whether of the animal or vegetable kind, the body is alive, and when they are wanting the body is dead. As the depositions of new particles in an animal body are made from material's foreign to the bodyfitself. and as these foreign ingredients must be changed, and changed remarkably, before they can constitute a part of a living being, it is not at all surprising that a numerous assemblage of organs should exist for effecting such change. Time will not permit me at present to enter into the subject. Suffice it to say that the organs of untritive or organic life include those of digestion, absorption, circulation of the blood, respiration and secretion; a series of phenomena of the most interesting kind, and which involve inquiries of the highest moment in the practice of medicine.

The organs arranged under the second of these classes are strictly of the animal kind; they enable us to move from place to place, to receive impressions of the varied objects that surround us, and to judge of the qualities and relations of these objects; hence we have for these purposes, first, the bones and muscles, or the passive and active organs of locomotion; secondly, the senses of touch, taste, smell, hearing, and vision, or a system of complicated apparatus of the most exquisite structure, by which we are in various ways brought into still more intimate relationship with external nature; and lastly, those still more remarkable central parts of the nervous system, on which the impressions made on the senses are concentrated and recoguised, and through which all intellectual operation, sentiment, or instinctive propensity, eminate.

The organs of the third class, or those of r-production, are essential to the continuance of the species. There is a term beyond which no organized being can survive; yet, though the individual being must perish, the species continues unimpaired. By the legitimate exercise of the reproductive organs a series of effects are superinduced, as remarkable and interesting as any in the whole circle of nature. These effects may be said to comprehend copulation, conception, uterogestation, and parturition—a series of processes by which a new being is formed, elaborated, nourished and protected, till litted for an independent existence.

Many works since the time of Vesalius have been written on the special anatomy of man. Is some, as in those of Winslow, Boyer and Cloquet, accuracy and minuteness are aimed at, without regard to the uses or functions of the parts. In

others, as in the Anatomic Descriptive, of Bichat, the descriptions, though not less accurate and circumstantial than in the former, are uniformly found in more intimate relationship with physiology. There are likewise many works professedly devoted to physiology, in which much of the intimate structure of man is attended to. Of these I may mention the Elementa Physiologize of Haller, and still more particularly the Elements of Physiology, by Müller, of Berlin, translated from the German by Dr. Baly, and enriched by the lineutrations of the translator himself.

3.—Of Comparative Anatomy.—That department of anatomy which treats of the structure of the inferior animals is usually called comparative, although a comparison with the structure of man, or with any thing else, does not necessarily enter into the investigation. The subject is of great extent, and of immense importance in the prosecution both of special and general physiology. It in-cludes a knowledge of the structure of the numerons orders, genera and species of radiated, articulated, molluscous and vertebrated animals, or an animated chain which stretches through a long and intricate succession of being, rising too in complexity from the monad or microscopic animated point, to the chimpanzé, the link which connects man to the inferior creation. Our discussions of this department of our subject, though of daily occurrence, will necessarily be very general, and subsidiary to human anatomy and physiology; but general though our demonstrations of comparative anatomy must necessarily be, I have no doubt that they will tend to increase the interest and usefulness of the course, and stimulate you also to a closer and deeper investigation of the subject for yourselves. To the Baron Cuvier we are chiefly indebted to the rapid progress this department of science has made during the last 40 years—a progress that seems almost miraculous, when we consider it as the result chiefly of one mind, but that mind was of no ordinary mould. I look upon Cuvier not only as the greatest naturalist and comparative anatomist, but also one of the greatest men that modern times has produced. I do not know which to admire most, his acuteness of observation and indefatigability in research, or his sagacity and intellectual profundity. Since the time of Aristotle, it will be admitted that his equal has not appeared. We have only to glance at his investigations into fossil animals to be convinced of his immense superiority. With a mind that could grasp the whole of nature's works, and with an acuteness that could penetrate to the very origin of things, he threw a blaze of light upon, subjects that seemed shronded in eternal night matters which cluded the deepest search of all previous investigators, he dragged to the light of day; he gave a form, a local habitation, and a name to whole genera of animals now extinct, and which inhabited our planet when man and the present race of animals were yet in the womb of futurity.

In a subsequent lecture I shall advert at great

In a subsequent lecture I shall advert at great length to the importance of comparative anatomy as a means of illustrating human anatomy and physiology; indeed all the great discoveries in physiology have been effected not so much by investigations into the human structure and functions, as by experiments instituted on the inferior animals. Look at the discoveries of Harvey on the functions of generation and circulation—of Bell and Magendie on the functions of the nerves—of John Hunter, Wilson Philip, Edwards, Müller, and others, on many of the vital organs and functions, and the high importance of comparative anatomy to the student of physiology will at once be apparent.

Many books have been written on this department of our subject, to a few only of which it will be necessary at present to allude.

I can recommend to your attentive perusal the Leçons d'Anatomie Comparée of Cuvier, the Outlines of Comparative Anatomy by Dr. Grant, and the Trairé Elementaire d'Anatomie Comparée, by Carus—works in which the subject is treated systematically and fully, yet each in a different manner, and with a different object. You will find also many good articles on comparative anatomy as well as anatomy and physiology generally, in the cyclopædia of anatomy, edited by Dr. Todd—

a work which reflects great credit on the industry and scientific attainments of the physiologists of this country.

4. Of Developmental Anatomy. - Every organ in the body, as well as the body itself, has a period of commencement, from which it passes through various changes in its progress to maturity; these changes, and the laws by which they are effected, belong to that department of anatomy which we may denominate developmental. The period of man's existence may be included in two grand epochs, that of intra-uterine and that of extra-uterine life. The first extends from the moment of conception to the period of birth, and the second from birth to the last moment of existence, or to death. The anatomical and physiological history of man during the first of these epochs is fraught with intense interest. It is a history not only of the changes which the body, as a whole, undergoes, which are neither few nor unimportant, but also of those minute changes which take place in each organ from its invisible and inapproachable commencement to its perfect form, and in some instances to Its full development. These changes consist not merely in an increase of size, a fact generally applicable to the organs of extra-nterine life, but in many curious and important transformations. Every organ is formed by the successive additions of new parts, and developmental anatomy treats of the order in which these additions are made, and of the physiological and pathological conclusions which may be deduced from this knowledge.

Besides the few excellent monographs which have been written on the development of particular organs, among the best of which are those of Ticdemann on the festal human brain, Serres on the spinal cord, Seiler on the eye, a succinct account will be found of the development of all the primary textures in the Anatomic Generale of Beckard, and in the Embryologic Humaine of Velpeau, and more particularly in the Principes d'Organogenic of Serres, an approach is made to a systematic and scientific arrangement of the whole subject of developmental anatomy.

5 .- Of Philosophical Anatomy .- This designation, introduced by G. St. Hiliare, has been applied to that department of anatomy which treats of the fundamental type or model on which all the animal organs are formed-a subject extremely interesting and curious in itself and calculated to lead to many important physiological and pathological conclusions. G. St. Hilaire has attempted to show that amid the endless variety of living beings who inhabit this globe, and more particularly among the vertebrated division of these beings, a striking similarity, if not an identity of structure exists, and that the apparent diversity of form and structure of different animals is dependent on a difference of development merely of parts essentially the same. Although many of the opinions of St. Hiliare are more funciful than just, still it must be conceded that his "Theory of Analogues," is exceedingly plausible, that his views of the elective affinity of organic elements and of the balancing of organs display an intimate acquaintance with animal organization and structure, and while we may call in question the accuracy of some of his "facts," and the soundness of some of his principles, there can be no difference of opinion regarding the originality of his views, and of the ultimate advantage to science of such investigations.

From what has been already stated, then, you will perceive that though in our practical course your attention will be confined to descriptive and relative anatomy, in the lecture delivered at this hour we shall take a much more extensive range and include in our investigations, general, special, comparative, developmental and philosophical anatomy. These subjects, it must be remarked, however, will not be discussed in the order now mentioned, but wrought up into a systematic whole. A few preliminary lectures will be given, illustrative of these subjects individually. But the whole will be taught, I conceive, to greater advantance in combination, and taught in subserviency to a full, useful, and scientific knowledge of human anatomy.

ft will require no lengthened argumentation to prove the paramount importance of a knowledge of anatomy to the practitioner of the healing art:

and as you are just about to enter this field of scientific research, with the ultimate object of fitting yourselves for professional practice either as physicians or surgeons, a few remarks on the relation which anatomy and physiology bears to medicine and surgery may not prove altogether useless. The object of medical science is to prevent, to cure, or to eradicate disease. Now disease in its mildest form is known to us generally by disordered function. Disordered function, however, cannot be recognised without a knowledge of healthy function. Healthy function cannot be understood without a knowledge of structure; and structure cannot be known without anatomical observation and scrutiny. There is, therefore, betwixt a knowledge of structure or anatomy, and a knowledge of disease, a close and intimate connection. If the structure is not known, the disease cannot be understood and consequently cannot be treated scientifically, or successfully. Physicians, are required to take enlarged and general views of the economy of man, both in a state of health and disease, and also to explain particular states and symptoms that exist in health, or are evolved by morbid action. But, can correct ideas of the workings of the whole economy be formed, if we are ignorant of the parts that constitute the whole? Or, can symptoms which depend on the situation or connection of parts be clearly comprehended if these parts are unknown to us?

If anatomy is so obviously necessary to the physician it must be of equal or still greater importance to the surgeon; it is to the surgeon what the illustrions Bacon has said of knowledge-it is power-power to alleviate pain, to eradicate disease, to save life. Surgical science may be viewed in a two-fold light; first, as embracing principles that are general or applicable to all the operations of surgery; and secondly, as referring to principles that appertain to particular operations. The general doctrines of surgery may be all compre-The gehended in what is termed inflammation and its terminations; yet, all these are only certain processes or operations of the animal economy, and probably differing less from the healthy operations than might at first view be supposed. One thing is undeniable, that the man who is conversant with the healthy operations of the human machine will find little difficulty in forming correct ideas of the more uncommon workings of the system. But it is in the manual or operative part of surgery, that the importance of anatomy shines forth most conspicuously. The human body is a most complicated machine. In teaching anatomy, we indeed, try to unrayel its intricacies by grouping the different parts into systems, as the oscious, the muscular, the vascular, the nervons, and the splanchnological; but this, though a useful, is at best a scholastic arrangement. The parts are never found thus arranged in nature, but bones muscles, blood-vessels, nerves, and viscera, are intermixed and blended, and to the young student apparently blended and intermixed in inextricable confusion. He can see no arrangement, and can scarcely conceive how any operation with the knife can be easily and safely performed. But the art of the anatomist expels the darkness and demonstrates an order and an arrangement of structures as beautiful as can be found in any other department of nature. The arrangement and relation-hip of these parts must be learned, however, before a surgeon, dare venture to operate, and this knowledge can only be procured by studying anatomy. Compare the state of surgery in ancient and modern times, and you will see how much that science has latterly been benefitted by the cultivation of anatomy. The ancient surgeons were unacquainted with any effectual method of staunching the blood after operations, and the consequences, therefore, were often dreadful when they ventured to interfere. These interferences were often worse than death. If they cut, they afterwards seared with a red-hot iron. If they amputated an extremity, they either ent with a red-hot knife, or plunged the raw and bleeding surface in boiling oil or pitch to stem the torrent of the blood. The mind sickens at the bare recital of these barbárous and revolting expedients. and turns with delight to the introduction of the ligature by Ambrose Pare. This was the first

grand improvement in modern surgery—an improvement springing essentially, however, from anatomy, and knowing as we now do, how much suffering humanity has been benefitted by a knowledge of the blood-vessels alone in reference to this single invention, we can easily conceive the mighty effects that would result to mankind by the successful cultivation of the whole circle of anatomy.

Anatomy is not only of deep interest, but a knowledge of it is absolutely necessary to your future respectability and success. If you are desirous of rendering your other medical studies easy, and at the same time pleasant, you must study carefully anatomy. It is the foundation upon which the whole superstructure of medical science must be erected, and if the foundation be unstable, how can the superstructure stand? Some of you are about to enter upon a new world of inquiry, and for the exercise of your various abilities you will find full play. Anatomy, as the science of organization, is yet in its infancy. The de-scriptive anatomy of the human body is more advanced, but this you know is but a small part of the science of organization, and in exploring the remaining part of this terra incognita, what snecessful results may not be anticipated, what brilliant discoveries may not yet be made. With an average share of ability, much may be accomplished. provided you proceed upon the right track and bring to the undertaking an honesty of purpose and an inextinguishable determination to succeed; and, gentlemen, if you are not forgetful of your own interests-if you are not deaf to the calls of suffering humanity-if you are not insensible and inaccessible to the generous and ennobling feelings and impulses of our nature you will not only fervently resolve to do justice to your studies, but carry that heaven born resolution immediately and perseveringly into operation.

LECTURES ON CHEMISTRY.

By JOHN SCOFFERN, M.D., Lecturer on Chem stry, at the Aldersgate School of Medicine.

The branch of electrical science termed Gilvanism, or Voltaic Electricity, owes its origin to Galvani, Professor of Anatomy at Bologna, in the year 1790. It appears that this philosopher was phosecuting certain enquiries on the frog, relative to the nature of muscular irritability, during the course of which he found that the animal's limbs contracted on touching them in certain spots with the blade of a knife, or other metallic substance. Galvani, having remarked the universality of this result, began to speculate on its cause, and finally arrived at conclusions which the result of his experiments by no means warranted. The following were the tenets of his belief:-" That in the brain there exists a store of electricity, whence it is distributed to every part of the system, and resides particularly in the muscles. That the different parts of each muscular fibre are in opposite states of electrical excitement, like the two surfaces of a charged Leyden jar; and that contractions result whenever the electrical equilibrium is restored. That such restoration is effected during life, through the medium of the nerves, and may be effected after death by interposing a metallic conductor." Now, without troubling ourselves by an examination of the details of this theory, details, which, by the way, are altogether gratuitous-let us at once embrace the main fact, that, in the experiments just mentioned, the electricity noticed was regarded by Galvani to have originated in the animal; and that the metal, or metals, were merely considered as acting the part of con-

The theory of Galyani met with several opponents, of whom Volta, Professor of Natural Philosophy at Pavia, was amongst the most celebrated. The discovered that although one metal might, under certain conditions, produce the reflect described, still it was much more effectually accomplished by two. He finally attributed the electricity generated, not to the animal, but to the contact of the two metals; of one metal with some adventitions body. Following up the train of enquiries to which those opinions gave rise, he constructed his celebrated pile—called the Voltaic

pile—formed by arranging plates of two dissimilar metals alternately, (the order of their recurrence being always maintained in pairs with a piece of moistened cloth, or card, between each pair.) It is strange how blind people are apt to be, to everything which opposes their own theory. Volta attributed all the electricity developed by his pile to the contact of different metals,—then, where was the necessity of interposing pieces of moistened cloth?

Subsequent investigators discovered that chemical action was always a concomitant of the development of electricity by Volta's apparatus. Fabroni even contended that the contractions produced by the pile on animals, depended on the heat developed by chemical action, or on the contact of metallic oxides with the animal tissue. This theory, fallacious though it be, had the effect of calling the attention of philosophers to the chemical changes which took place within the pile. Dr. Wollaston devoted particular attention to this subject. In the Philosophical Transactions of 1807, he published many ingenious experiments to prove that the electricity resulted from a previous chemical action, and was commensurate with it.

The third theory of the Voltaic pile is intermediate between Volta's and Wollaston's. It was proposed by Sir II. Davy, who inferred that the electrical current depended as well on metallic contact as on chemical action; the former, he imagined, first produced a disarrangement of electrical equilibrium, which was immediately restored by the latter—such disarrangement and restoration constituting a permanent current.

Supposing the elements of the pile to have been copper, zine, and water, the explanation of the resulting electrical current, according to Davy's views, would be as follows:—"Copper and zine being brought into contact, electrical excitement as the result. Zine becomes + and copper.—The water in contact with the plates is composed of two elements, oxygen and hydrogen. Of these, hydrogen proceeds to the copper or negative plate, and therefore itself must be negative. Oxygen, on the other hand, goes to the zine or positive plate, and must therefore be positive. It is evident that this theory assumes the necessity of metallic contact, as the fons et origo of all subsequent electrical action.—an assumption which is fallacious, as modern experimenters have proved.

The advocates for $\hat{\mathbf{V}}$ olta's theory endeavoured to support it by reference to the dry pile of De Luc, an instrument which may be thus simply explained:-A glass tube is filled with discs of paper, gilt on either side with a different metal (silver and Dutch leaf are those generally employed), and the tube is furnished at either end with a brass knob. Such an instrument is capable of manifesting several electrical effects, and it has been argued that the electricity must be owing to metallic contact, inasmuch as the paper being dry, no chemical action could result; a fact also proved (as was thought) by the duration of the period which such a pile will retain its power. These arguments a pile will retain its power. seem altogether fallacious. In the first place, the paper, although called dry, must necessarily contain some hygrometric moisture,-secondly, the metallic plates certainly do become oxydized. It may be argued that the oxydation is not commensurate with the length of time which such a pile will evolve electricity, but I cannot fall in with this idea. Although a De Luc's pile will remain in action for years, yet it is not always active; but, previously to using it, a terminal screw is employed to compress all the metallic plates together. Even then, the action of a De Luc's pile cannot be depended upon, and its effects at the best are but very trivial. Some years ago, when I assisted a lecturer on chemistry in this town, I called on a celebrated maker of philosophical instruments, the owner of a De Luc's column, no less celebrated. This I wished to borrow, having heard sundry enlogies as to its potency. Some how or another, I noticed that the fame of the column was not mentioned to the owner without some slight embarrassment on his part. The origin of his embarrassment I had no wish to pry into, and was in the act of turning away, with the instrument in my pocket, when the owner beckened my return. For a second he said nothing, and I was in the act

some emotion, "Do you assist Mr. — in his lecture?" "Yes," "Then," said he, "before you hand him this column, give the glass part a nih with you cont-sleeve." I did so. Electricity was generated by the friction—the gold leaves of the chetroscope were deflected most magnificently—and the andience were very much edified by this instance of electricity by contact. I mention the fact, to prove how much the power of De Luc's apparatus has been over-rated, and how little reliance can be placed on class-room experiments illustrative of this instrument.

Such, then, are the chief theories of Voltaic action-we will leave them for a while, and proceed to enumerate certain forms of Voltaic arrangement. The pile, intimately connected as it is with the theory of Volta, is a very inconvenient instrument for most purposes, and is now seldom or never employed, except as a curiosity. Voltaic arrangements may be either simple or compound—the former are those which consist of the fewest possible elements necessary to produce Voltaie dis turbance. For instance, an arrangement of zinc. fluid, copper, whether placed vertically in the form of pile, horizontally, or otherwise, is a simple voltaie circle. A reduplication of this series constitutes a compound Voltaic circle. All the various forms of Voltaic arrangements being so much more easily understood by inspection than by description,I pass them over, and confine my attention to the simple Voltaic circle, as most instructive. The usual plan of forming such an arrangement is by immersing two dissimilar metals, touching each other at one extremity, in a fluid which is only capable of acting on one of them, or, if on both, with different degrees of facility. One metal, and a fluid capable of acting upon it, will not develop a Voltaic current-but one metal, with a different fluid on either side, each effecting a different chemical action, is efficacious. The usual plan, however, is to employ two metals and one fluid. Knowing the relative facility with which different fluids exert a chemical action on different metals, it is easy to indicate the best theoretical voltaic arrangement. This will be best understood after an examination of the accompanying table:-

	1	1	SOLUTION	LETTOM BL-
DILUTE NI-	STRONGNI	MURIATIC	OF	DROSULPHU-
TRIC ACID.	RIC ACID.	ACID.	CAUSTIC	RET OF
			POTASH.	POTASSIUM.
Platinum,				Platinum,
Silver,	Nickel,	Antimony,	Silver,	fron,
Copper,	Silver,	Silver,	Nickel,	Nickel,
Antimony,	Antimony,	Nickel,	Copper,	Bismuth,
Bismuth,	Copper,	Bismuth,	Iron,	Antimony,
Nickel,	Bismuth,	Comper,	Bismuth,	Lead,
from,	Iron,	Iron,	Lead,	Silver,
Tin,	Tin,	Lead,	Antimony,	Tin,
Lead,	Lead,	Tin,	Cadmium,	Cadminm,
Cadmium,	Zinc.	Cadmium	Tin,	Copper,
Zinc.	Cadminn.		Zinc.	Zinc.
	1	l		

Suppose the exciting fluid to be muriatic acid, then the best metals to form a Voltaic arrangement would be platinum and zine; the next best, antimony and cadmium, etc. It is singular that the power of Voltaic electricity to give a shock, depends entirely on the number of alternations, independently of the extent of their surface;—but with respect to chemical effects, the reverse obtains. This fact has never been satisfactorily explained. Until within the last few years, the metals generally employed for forming Voltaic arrangements, were copper and zinc; but, lately, many forms of arrangement, infinitely more powerful, have been devised. Platinum, in the old forms of battery, would have been too expensive an element; but, in Groves' arrangement, this inconvenience is partly surmounted, and an instrument is formed more powerful than any Voltaic apparatus previously invented.

owner of a De Luc's column, no less celebrated. This I wished to borrow, having heard sundry enlogies as to its potency. Some how or another, I noticed that the fame of the column was not mentioned to the owner without some slight embarrassment on his part. The origin of his embarrassment I had no wish to pry into, and was in the act of turning away, with the instrument in my pocket, when the owner beckened my return. For a second he said nothing, and I was in the act of turning away again; at last he enquired, with

on the copper-plates, thereby always preserving them bright and efficient.

We will now pass from the forms of Voltaic apparatus to the effects produced by the electricity evolved; and here I should remark, that, although identical with electricity developed by the machine, still its effects are very different. Voltaic electricity is developed in a quantity infinitely greater than can be accomplished by the machine-but of very low intensity; hence the peculiarity of its results. This distinction between intensity and quantity is felt almost intuitively by electricians, and still is very difficult to be explained. It is easy, however, to imagine effects not only dependent on the quantity of an agent, but also on the method of applying it. instance, the ignition of a pound of gunpowder thrown loosely on the ground, would not produce so marked a result as an ounce fired in a cannon. Without pretending to demonstrate any precise analogies. I think you may associate the idea of electrical intensity with a small quantity of confined and ignited gunpowder; whereas, electrical quantity, apart from intensity, may be roughly assimilated to the other case.

I have already noticed that chemical action is necessary to Voltaic excitement; the latter, in its turn, becomes one of the most powerful agents in effecting chemical decompositions. Previously to my entering upon this subject, I must caution you against any confusion which might arise from an apparent contradiction in terms, in reference to the ends of a Voltaic arrangement. We will suppose zinc and copper to be the metals employed, and dilute sulphuric acid, the fluid. Now, a simple Voltaic arrangement of these elements would stand thus,—

+ Copper, acid, Zinc -

in which case the copper is positive, and the zinc negative. A compound Voltaic arrangement of the same elements stand thus,—

+ Zinc, copper, acid, Zinc-copper -

In which case the electrical energies seem reversed; but this is only apparent, not real; the explanation being, that in every compound Voltaic circuit, the two terminal plates are of no service, and might be removed without influencing the The reason of their being retained, is for the purpose of allowing several batteries to be joined together, when the plates, formerly ter-minal, cease in reality to be so. The effects of Voltaic electricity may be divided into physiological and chemical; the former do not materially differ from those produced by electricity from the machine; the shock, however, is not so violent as that from common electricity, but more persistent. Like common electricity, it has been employed in the treatment of many diseases, with various degrees of success. For such purposes, it is to be remembered that mere extent of surface in the metals employed, need not be regarded—number being the only requisite. The chemical effects of Voltaic electricity are most curious and important. No other agent has afforded us such means of elaborate decomposition, or has led to such magnificent and unexpected results. It was by the aid of Voltaic electricity that Davy achieved the first brilliant conquests in his extraordinary career, and accomplished the decomposition of the alkalies and the earths, — The investigation of these effects will form the subject of our next lecture.

Poisoning by Laudanum.—A young writer, M. Camille B., whose debuts at the Comedie Française had been remarked, has lately perished in consequence of a fatal imprudence. Being attacked with a slight indisposition, M. C. B. was directed by his father, who is a physician, to apply a cataplasm, into which a few drops of landanum were to be poured, to the stomach. To alleviate his pain, which was very severe, he poured, instead of three or four drops, the whole contents of the bottle into the cataplasm, and went to sleep thus. The poisoning was almost instantaneous. The most prompit assistance which was rendered him was in vain; he died in a few minutes.

EXTRAORDINARY CASE OF ARTIFICIAL ${\bf SOMNAMBULISM, AND\ CLAIR VOYANCE.}$

To the Linter of the 'MEDICAL TIMES.'

SIR,-Before I left London, you asked me to give you a written account of what I had just seen at Mr. Prideaux's, at Southampton. The reason 1 did not do so, was, that the patient I had seen was not mine; I was not the mesmeriser; and, as it was in his house we experimented, I could not assert, on my own knowledge, that there were not pipes going from his upper rooms down to his kitchens, &c., &c. True, 1 did not allow any of our experiments to depend on the honesty of either Mr. Prideaux, or his patient, for the experiments were not of a nature for collusion to be possible. Still, I thought I should appear with better grace before the public, if attesting cases of my own, and which took place in my own house, and until I should have such an opportunity. I determined to remain silent on what I had seen; but, now that such an opportunity has occurred, I will relate it, and, in some future letter, will relate, also, what I saw and did at Mr. Prideaux's, at Southampton to whose kindness and forbearance, I am much indebted. I will now proceed to give you an account of what happened last night, here in my drawing-room, between the hours of eight and ten.

Caliste, now aged 22, was once a patient of M. Ricard, professor of mesmerism, here at Paris; after being cured by the latter, of his complaint, he was retained in the establishment of M. Ricard, some years, on account of his remarkable lucidity. At length, Caliste and M. Ricard, disagreed, 1 believe, on account of Caliste's immoderate love for the bottle, and they parted. M. Ricard will now not have any thing to do with him, and I believe. Caliste makes his living by being mesmerised for pay, by the Paris medical students, and who, by bad management and ignorance, I have no doubt, have much injured his mesmeric education, as much as intemperance has, doubtless, injured his haid powers. I brought with me scaled letters from England to get read, unopened, should ever such an equotionity occur, and I applied to M. Ricard for his assistance, in the endeavour. He said he knew no patient then AT THAT MO-MENT IN PARIS, so likely to read them as Caliste. provided he had lost none of the former power which he possessed, when mesmerised by him. I said I should be delighted to run the chance of a trial, and his clerk promised me to send Caliste to me, if by any means, he could get his address. A few days after, Caliste was sent to my house, and I saw him, for the first time in my life, the day before yesterday. We only exchanged a few words in which, I told him what I should give him, and to come the following evening (last night), for me to mesmerise him, but to bring no one with him, as I was quite competent to take care of him. Last night, 5th October, Caliste arrived here at half-past 7, P. M.; I had invited to witness the experiments with three ladies, Colonel Kent Murray, Captain Cotgrave, R.N., and Mr. Jump. I commenced mesmerising Caliste, and in about seven or eight minutes, he passed into the mesmeric sleep, with a deep breathing and a shudder.

In a minute or two, we began our experiments, We wrapped up some cotten wool in some lint, and made two large pads, which we applied to his cyes, and over them, bound a very large, new, and white India silk handkerchief. Every one declared themselves satisfied he could not see. He then consented to play *cearte* with one of us, and Capt. Cotgrave began. They sat at a card-table, and two packs of MY cards were produced. He took up one pack, and like lightening sorted them for cearte; that is to say, he threw out all the cards below seven, without one mistake. They cut, and he dealt-he won every game, and, to the best of my observation, never lost the point, except when the Captain refused to give him eards, when, of course, it was a question of luck. He would frequently say, before he began to play (and all he did was with an astonishing rapidity) "You have lost; and tell over the eards of his adversary as if he saw them, and never made a mistake. He

with him, and with exactly similar results. On one occasion the Colonel cut for deal, and cut at the seventh card from the top, and before he turned it up, or knew himself, Caliste named the card. Now, he must either have seen through six eards, or round a corner, neither of which depended on any fault in the bandage, even if a misplacement had taken place, any more than his reading his adversary's cards. While playing, he seemed much annoyed by the brass binge of the card-table, and for a long time we could not think the meaning of his fretful motions, till he complained of the brass, when we turned the table for We frequently inspected the bandage, and sometimes at his own request, though, indeed, the wonder of what he did was not at all dependent on it. I then begged him to tell me, out of ten sovereigns, the one I had mesmerised. He said he disliked gold, but begged for silver. I gave him ten crowns. One was marked by Colonel Murray, and given to me to mesmerise, and the Colonel ran his bands over the others-Caliste had his head turned away, and the bandage still well on--1 placed the mesmerised piece amongst the rest, and turned my head away, fearing if I knew which it was, he would find out through me, and begged the Colonel not to touchut, but to push it about with the others, and alter the position of it. All the company had been shewn the Colonel's mark, and Captain Cotgrave also moved them about. Caliste took them all up, put one at top of the other, ran his nose, as if smelling, along the rouleau of crowns placed them upon the table, and said. "The fourth piece is yours." He was right. He never looked at the faces where the mark was, and all was done with a speed quite incredible.

I then put him in contact with the Captain, and asked him about his health, and if he had lost any limb, or the use of any organ? He said he was then suffering no pain—that he had lost no limb. I asked if he was deaf or blind? The reply was, he sees better with one eye than the other; and on being desired to name which eye was the best, he named the left, which was quite correct; for the other eye was quite gone, though, unless looked into, not to be easily perceived. I forgot to mention that while Caliste was playing eards, I had all the lights put out, but one, which was put at some distance from Colonel Murray, so as only just to enable him to see his own eards. Caliste did not appear to be aware of the change for some time, but still played on and told his adversary's cards: but at last he said something about the candles, and we relit them. Another experiment we made, was to see if he could tell us the names of four eards, with their faces on the table. He said he could not, he thought, tell us the colour, but he would count the points for us, which he did correctly, only once he counted seven instead of ten,

I then gave him one of my scaled letters to read, but he said he could not, for he had never done such a thing, though he had seen into a wooden box (which box I have seen), but that if he tried three or four times, each time mesmerised by me, thought he could. It was curious to see him try; he applied it to his elbow, stomach, head, fingers, &c., and all with the greatest speed. 1 then proposed to the company trying on him an experiment, I had seen Mr. Brookes, in London, succeed with, but that I did not know if I should succeed or not, for I knew nothing of the patient's powers, or of mine over him, for I had never mesmerised him before. The experiment was to make him "hear" or "deaf" at pleasure. Without giving him any notice of my intention, I placed him in rapport with Colonel Murray, and begged the Colonel to keep up with him a running conversation. Captain Cotgrave was to stand behind him. and give me a signal when to make him deaf, and when to make him hear again. I stood behind him and on one side, with my legs, at about four and a half or five feet from him. At the signal given, I made him deaf, but using too much power for so simple a purpose, his head fell, his breathing was heavy, and he had just the appearance of a

Captain did himself. Colonel Murray then played he made a start as if frightened. We again tried the experiment, and as I used less power, the effect was much more neat and beautiful. I did not breathe on his ear to restore hearing, as did Mr. Brookes. Captain Cotgrave kept a sharp look ont on me to see I was not any where near enough to touch a loose hair with my hand; which I kept at about a foot and a half from his head, and only allowed the hand to move slowly from the wrist, and, indeed, the hand or any motion was quite nunccessary. We then gave him a French book, and opened it at two different places, which he read without difficulty, following the lines with his fingers. We took off the bandage and reapplied it, but still be read, and two words were of the smallest type, which I could not read at the same distance, though my sight is most acute. Colonel Murray then wrote on paper a sentence, part of which, Caliste read, but said it was too small, and indistinctly written for him; indeed, the words he read I could not make out at all. Colonel Murray then wrote what I send you enclosed in small writing, part of which, he read, but said it was too small; but, on Mr. Jump's re-writing it in large characters underneath, he read it all, but first said the word "bien" was "ben," and the word "Dommage" he said, was "De Manger, and the but, on our saying he was wrong, he at length read it correctly. He held the paper nearly at his arm's length; I then placed Mr. Jump en rapport with him, and begged him to tell his complaint. He touched the end of his fingers, and then carried his own to his nostrils and forchead. He said he had no particular illness or pain, but that he had a "nerveuse maladie par tout." strictly true, he had just suffered a heavy, loss and I had asked him to come to me to aimse him. Caliste could not bear the brass buttons on the jacket of the little page, with whom I placed him en rapport, but made him take off his coat before he would touch bim. We also tried the community of taste, I cat a piece of sweet biscuit, which he said was "Gateau." I put a ginger lozenge in my month, which he said he did not know the flavour of, but supposed it was some sort of preserved fruit, but that he was not acquainted with those tastes. I then took some brandy from some brandy cherries with sugar in it, and he said it was some sort of liquor, brandy, or Rum or something of the sort. He then begged to be awakened, and I awoke him in half a minute

Of course I shall continue my experiments on him for several sittings more, and will make him see behind him if possible,

If you will write me a line I will send you an account of our sittings, and afterwards of what I saw at Mr. Prideaux's, at Southampton, if such matters are likely to be agreeable to your readers.

Surely I cannot be charged with being credulous, for I have held out against each repeated fact in mesmerism, till I have had the same proofs as I have of my own existence—viz., my perceptive faculties, not one, but all, for one may be deceived as in the case of a conjuror pouring different wines out of one bottle, and even there one's sight does not deceive one for he really does it, but the bottle is divided, and there is a hole, plugged by his tingers, to each division of the bottle -still one of our senses may be deceived, but not all our faculties, as for instance the sun seems only as big as a cheese and our organ of size is deceived by the distance, but eventuality tells us that all objects appear smaller at a distance, &c., and we perceive our error. Were it asked why 1 believe in mesmerism, I should answer, because it has been subjected by me to the judgment of all my faculties, except the faculty of causality, and it has been declared by them true, and therefore stands exactly on the same footing in my estimation as the compass, the magnet, my existence, matter, space or light. I do not understand its cause, but must believe it and will not refuse myself, the uses and benefits it offers me because 1 cannot tell exactly its origin and its exact " why and wherefore,"

Had I such evidence as I have had of all I assert to be true of mesmerism, I must believe anything. however extraordinary it may appear to me; 1 am if he saw them, and never made a mistake. He knew the cards his adversary held, better than th I made him hear, but again using too much power. believe a contradiction, such as three being but one, yet at the same time quite separate. &c.&c., but there is no contradiction in mesmerism.

I remain, Sir, your obedient servant.

W. Macpherson Adams.

I must also in some future letter give you an account of Mademoiselle Virginié-What I have here stated. I am prepared to prove to any person or any number of persons. If any person whose name would have any weight whatever, as evidence of the facts I assert, will take a run over here, or if any such person be already here in Paris and will call on me, I will undertake to prove the faith of all I have asserted. If any gent., such as I have named, feels inclined to come here from England for the purpose, or if any such are coming here for any other purpose and would like to seize the opportunity. I shah only require that they bring a note from you just to prove their identity and their respectability.

TO THE THE ARTERIA INNOMINATA.

By G. D. Dermott, Esq., (1 ecturer on Anatomy and Physiology to the Charlotte street School of Medicine.)

RELATIVE ANATOMY.

The Arteries arising from the Arch of the Arta consist of three tranks which emerge from the cavity of the thorax, to supply the superior parts of the body; viz., the head, neck, breast, and the two superior extremities. They make their exit from the superior aperture of the thorax in the following manner:-

The Arteria Innominata, arises from the commencement or the superior and anterior part of the arch; passes obliquely upwards and towards the right side, in front of the trachea, and behind the upper part of the first bone of the sternum; and bifurcates behind the right sterno-clavicular articulation and about an inch and a half above its origin, into the right common carotid and right subclavian arteries; the first ascends on the longus colli muscle by the side of the trachea; the latter passes outwards across the upper surface of the right first rib, within the lower part of the neek, and next descends beneath the clavicle into the axilla. Sometimes the innominata bifurcates much higher, and crosses the trachea on the lower part of the neck above the sternun.

Descending in front of the arteria innominata, from left to right, and sinking into the thorax behind the upper part of the first bone of the sternum is the left vena innominata, which at this point generally receives some of the thyroid veins.

Anteriorly, inferiorly, and to the right, the right vena innominata bounds the artery-and more immediately inferiorly, and to the right, is

the cul de sac of the right pleura.

Descending anteriorly to the arteria innominata, and between it and the vein, is the superficial cardiac nerve. The order of the parts (from before backwards) behind the upper part of the first bone of the sternum is, the interclavicular ligamentleft vena innominata-arteria innominata-trachea ---œsophagus.

To apply a Ligature upon the Arteria Innominata. This artery has been tied in the living body, by Dr. Mott of New York, in 1818; by M. Graefe. of Berlin, 1822. Both cases terminated fatally. Dr. Mott's on the 26th day, and M. Graefe's on the sixty seventh. The head and superior extremity were, in both instances, duly supplied with blood by the collateral inosculations.

The following mode of performing the operation is the one usually recommended:-

Let the patient's head and neck be moderately extended backwards, which will rather have the tendency, by drawing upwards the trachea, to elevate the arteria innominata, inasmuch as the trachea is immediately behind it. Commence the first incision in the median line of the neek above the sternum, and carry it horizontally outwards (towards the right) above the clavicle, for nearly three inches, through the integuments. Carry another incision, of nearly an equal length, from the commencement of the preceeding one, upwards, in correspondence with the anterior edge of the sterno-cleido-mastoidens muscle; the two forming with each other a __. Dissect the flap of integuments backwards, when the origin of the

sternal origin of the sterno-cleido-mastoideus, and cautiously but completely divide this part of the This will expose the lower parts of the deep cervical fascia, the sterno-hyoidens et thyroidens muscles, which must be most cantiously divided in the same manner. Next trace downwards with your finger, the carotid artery to its origin, which, if regular in its origin, leads you to the arteria innominata; pass the ligature behind the latter from within outwards. The best aneurismal needle for this purpose, is that invented by L'Estrange, of Dublin. The position of the left vena innominata, which closely crosses the front of the artery nearly at right angles (and which will have to be depressed towards the thorax by the fingers of the operator) during the operation of tightening the ligature, must be particularly borne in mind.

When the innominata is tied, the blood is carried into the right carotid, and thence into the subclavian by the inosculations in the thyroid body-the circle of Willis also into the opposite subclavian by the junction of the two vertebrals; and from the aorta direct to the axillary and subclavian trunks by the intercostals inosculating with the external thoracic arteries.

THE ARTERIA CAROTICA SINISTRA arises from the middle and highest part of the arch of the aorta, immediately behind the arteria innominata, so that there is no evident space between the carotid and the latter; it is also at its origin rather before the left side of the trachea; it ascends, making a very slight inclination backwards and to the left, so that, after commencing in front of the left side of the trachea, gets by it, and against the longus colli muscle. It then ascends like the right common carotid.

The Arteria Subclavia Sinistra, arises from the upper and posterior* part of the arch of the aorta, at a little distance behind the left carotid, and consequently nearer to the termination of the arch of the aorta and the dorsal vertebrae. Although, as already stated, there is no positive interstice between the origins of the left carotid and the arteria innominata, there is a decided space between the origin of the left carotid, and this, the left subclavian, notwithstanding the two latter pass to the same side of the body.

The left subclavian passes upwards from its origin bearing somewhat more to the left than the left carotid, so as to emerge from the thorax posteriorly, but distantly, to the articulation of the first bone of the sternum with the cartilage of the first rib; then, getting on a level with the left first rib, it arches across it and between the two sealeni muscles; whilst still upon the upper surface of the first rib, like the right subclavian, it emerges from between the two scaleni, and dives downwards beneath the clavicle and subclavian muscle into the axilla, to become the axillary

I think that by means of an inverted T incision, and dissecting the two flaps laterally, that the ARTERIA INNOMINATA could be easily secured without the division of any muscle. In injecting subjects, a single longitudinal incision between the lower parts of the sterno-cleido-mastoidei, and carried downwards over the first bone of the sternum, is quite sufficient for the introduction of the pipe into the arteria innominata, and even into the commencement of the left common carotid, and that most readily; I also, when injecting from this point,make use of the same incision for introducing a pipe into the commencement of the left sub-

(To be continued.)

ROYAL COLLEGE OF SURGEONS, LONDON.

List of gentlemen admitted members on

Friday, October, 7th, 1842:—
R. E. Adams, W. Thomas. J. Coman, H. G. Walker, H. St. John Clarke, G. Stockil. J. Christie, G. H. Maadsdoop, A. G. Purchas, J. Kenyon, H. Greaves, H, C. Thurgar.

* The terms superior, inferior, anterior, and sterno-cleido-mastoidens will be exposed. Next posterior, are used in these descriptions in relation pass a director from within outwards behind the to the erect position of the body.

EXTRACTS FROM FOREIGN JOURNALS.

(For the 'MEDICAL TIMES.')

PRENCH.-Resection, with Disarticulation of the Lower Third of the Radius. By Dr. P. RICORD, of the Hôpital des Vénériens. - Case: Joseph Vivian, 23 years of age, a labourer, was received into the Hopital du Midi, on the 13th of January, 1841. This patient, born of healthy parents, and himself possessed of strong constitution, had been affected at the age of 12 years, with an abscess near the internal condyle of one of the femurs. This abscess had left no trace behind it, and the patient had since enjoyed good health. Eleven months before his entrance into the hospital, after his usual labours and without any known cause, he was taken with severe pains and swelling at the outer and lower part of the right fore-arm. Two months afterwards, abscesses formed upon this region, and were opened in another hospital. It could easily be perceived on probing the wound, as well as from the nature of the suppuration, that one of the hones of the forearm was diseased. Fresh abscesses occurred, and the patient entered the hospital where he was treated, for four months, by emollient and tonic medicines. The following was his state when he came under my care: the lower part of the diseased limb was double its natural size, the swelling extending over the wristjoint to the hand. The posterior surface of the limb was pierced with five fistulous gaping openings, of a fungoid appearance, and which gave issue to a sanious pus. Upon the anterior surface, four similar openings were perceived, through which the probe might be passed to the orifices on the back of the arm. The fleshy substance was hard and solid, in several points, resembling lardaceous tissue. In the various movements of the fore-arm and of the hand, we could searcely distinguish the projection of the muscles or tendons. Although the patient did not experience acute pain, he felt a constant state of suffering, which, added to the abundance of the suppuration, had induced a state of fever with exacerbation towards night. He was much emaciated, and from time to time affected with diarrhea. Having discovered, by means of a probe, that the greater part of the inferior third of the radius was in a carious state, and taking into account the had condition of the soft parts, I at first thought, like those surgeons who had seen the patient before me, that amputation of the forearm was the only resource left. But, after a most careful examination, and after being perfeetly satisfied that the ulna was quite free from disease, that the radio-earpal articulation was still sound, although the disease of the radius was bordering close upon it, I decided on an attempt at the preservation of the hand, by removing only the diseased parts. On the 9th of March, 1841, I proceeded to the resection of the lower third of the radius and to its disarticulation. For this purpose, and with a view of preserving, as much as possible, the muscles and tendons, I followed the principles laid down by M. Jules Guerin, in reference to sub-cutaneous operations, and made a simple longitudinal incision along the outer edge of the radius, commencing below its middle part, and terminating just beneath its styloid process. The skin, as much as the state of the parts permitted, had been previously drawn backwards, so as to prevent the parallelism after the Operation, between the outer wound and that of the deeper seated soft parts. This done, the radius was isolated, along its inferior third, by means of a curved bistoury, taking care to keep the knife close to the bone, so as to avoid, as much as possible, the muscles and their tendons. After having completely denuded the

bone, it was in the first place divided at the union of its lower and middle thirds, by means of a chain-saw. Directly afterwards, keeping the edges of the wound separated with the blunt hooks, the external and antero-posterior ligaments of the radio-carpal articulation were easily divided with the bistoury, and the radioulnar joint cut through with two strokes of Liston's seissors.

The operation was less tedious than I had expected; the patient bore it with great courage, and whether from the care with which the dissection was performed, or from the state of the tissues, not a single artery required tying. After the operation, the wound was brought together so as to unite by the first intention. The limb was placed upon a pillow. with the hand raised, and the parts covered with compresses moistened with cold water. A circumstance worthy of remark is, that immadiately that the pronator quadratus was divided, contrary to what takes place in fracture of the lower part of the radius, the hand was foreibly turned towards the ulnar side.

The removed portion of bone was greatly altered in structure throughout its whole substance, commencing half an inch below its upper extremity: being thickened, softened, and infiltrated with pus; presenting also in various parts, points of necrosis which were more or less detached from the carious bone. Without giving the daily details of the results of the operation, I shall merely say that by the the continued employment of the cold water dressing, all febrile re-action was prevented, and but two small abscesses formed which required opening: the one on the back of the hand, the other on the fore-arm. Six months, however, elapsed before the soft parts returned to their natural state and the fistulous passages became completely cicatrized. During this time, some small spicula of bone escaped by suppuration, as well as portions of tendon. It was only towards the fourth month that the hand, which formed an angle of 45 deg. with the ulna, became gradually straightened, in proportion as the point whence the radius had been removed was filled up by inodular tissue. At the same time that this straightening of the hand took place, it became slightly turned towards the anterior surface of the fore-arm, so as to allow a somewhat marked projection of the ulna backwards.

With a view of assuring myself of the perfect cure of the patient, as well as to give him time to gain as much strength as possible in the hand thus saved, I have kept him in the hospital up to the present time. The cure of this man is now complete; and, although his hand is partly deprived of the movements of pronation and supination, as well as of those of flexion and extension, he can write with ease, employ his hand for all the purposes of life, and carry things of considerable weight, such

as a pail of water.

Instances, somewhat similar to the above, have been previously recorded; yet this case presents peculiar interest, and should encourage us to have recourse to an operation, perhaps, too much neglected, but which can hardly be too strongly recommended; for it may, in some particular cases, be substituted for amputation of the fore-arm, and thus preserve a useful hand to the patient.

TO CORRESPONDENTS.

A. M .- Beck's work, a new edition of which has inst appeared.

The continuation of Lectures by Orfila, Nottingham. and Serres, next week.

We have several Correspondents to thank for Conntry Journals.

Mr. II. W .- We have received many testimonics of approval and kindness from our Country readers; but the most solid, is certainly that of our Correspondent, H. W., who sends us a basket of prime game. We have a very high opinion indeed of H. W.'s taste.

The case from Bloaworth may as well be suppressed. The whole was a tissue of blumlers.

Mr. Rankin.-We have inquired, but are not able to give the information asked.

 $\tilde{\Lambda}$. H.—The viroumstance referred to, will make no difference in the "sensations."

Mr. Coles, the ingenious machinist, has sent us the greatest of his inventions, a gennine poem of his oun composition—the first-born of his old age, and (we believe) of his young muse. Milton and Mr. Coles seem to have one thing in common—their Castalian founts both overflow about the antumnal equinox, and partly as a pyschological variesity—and partly because it will (we are told), produce an astounding sensation among the profession, we honour the extraordinary bantling with a place in our pages :-

When first contagion spread its baneful breath, Throughout the earth and sow'd the seeds of death: A direful agent soon it singled out, Twas rheumatism, parent of the gout!

This painful racking for to mortal's health, Bare off its victims, as it were, by stealth; Nor could the wisest sages of the day, Arrest its progress, or the pain allay.

The period soon arrived when studious care, Reclaimed the thousands from their sad despair; Rhenmatic torture fled throughout the land, From the Peruvian Rhoumatic band!

"Coles," Patentee of many useful schemes. Not based on feeble theoretic dreams; Discover'd that a norious atmosphere. Evgender'd Rhenmatism every where.

Dampuess of clime, foul vapour, or keen frost, He wisely judg'd, nurs'd Rhoumatism most; Nay, from experimentalists be found, That of all sails 'twas worst on British ground !

To quell this torment was his study bent, Relief to mortals, was the sure event; Mankind received such benefit, "that fame Made Rhoumatic Bands the general theme,"

Some of the Faculty came "learned too." Waithing with pain, as many others do; Could he, " their importunities withstand?" Not be, indeed, "they all would have the Band," Amazing where their virtues, " they proclaim, Blood circulating through every vein; Their muscles strenghtened and their limbs work'd free, Exclaimed, foul enemy. " we're conquer'd thee! Sed Satis.

TIMES. MEDICAL THE

SATURDAY, OCTOBER 15, 1842.

Fy on't! O fy! 'ris an unweeded garden That grows to seed: things rank and gross in nature Possess it merely.

THE sufferings and death of the poor lady whose case we published last week, furnish matter for solemn and useful consideration. The lamentable victim of individual ignorance and negligence, she was still more the victim of a frightful system; and her death suggests to us a harrowing reflection on the multiplied murders which must necessarily come out of the same source, but which are for ever hidden from the world by the absence of circumstances so fortuitously striking and singular. Mindful of our consceration as journalists to the public's weal, we take our stand by her murdered corpse, the eloquent representative of many a less known victim, and summoning to our side, as unimpeachable evidence, the unpunished surgeon and druggist, we boldly arraign our governors

bring the case of this injured woman before the judgment-seat of the public, and tell the government "this is your work!" We bring forward the enormous list of suicides, and we say, "your hand has been here!" We go to the sessions and assizes, and, marshalling the poisoning culprits, we exclaim, behold your instruments!" We present the registries of druggists' victims mutilated, poisoned, killed in ignorance, negligence, or cupidity, and we cry, "their blood is upon your head! Justification there is none, and excuse avails not. The system is your work, and the power of remedy lies in your hand and is unused. You have left poisons free of access-as water: you might have made them unattainable save by doctors' prescriptions. You have left the druggist uneducated; you might have seemed his perfect competency. You have vested profitable malpractice with impunity; you might have guaranteed its certain punishment. You might have made the druggist's business, prospects, property, liberty, life, the graduated forfeitures of negligence or wrong; and, while leaving the public at the mercy of his ignorance or sordidness, you have placed all these beyond the reach of justice. To the large extent, therefore, which these and such precautions would abate injury. or save life to that extent, we charge on you "that you are not guiltless of wrong!" On what plea, we should be glad to hear,

shall our government escape this grave responsibility! Whatever reasons there are for the existence of a government, are reasons for that government's taking a primary care on this vital matter. Government exists to protect individuals from one another's lawless excesses and criminal passions; to save, consistently with social good, the largest possible amount of their uninfringed possession and enjoyment of their property-but, above all, of themselves - their health - their lives. neglect its people's lives, therefore,--- to leave them to negligence, when care can be easily secured-to commit them to ignorance, when knowledge may be guaranteed -to throw them at the mercy of every caprice, and every temptation, and every accident, and every vice, when these conditions may be easily provided against;-to do all this, we say, is for a government to torsake the very first of its duties. complaint can be made of the government's lack of zeal in protecting its people's material property. In every loss of this kind the law is liberal enough in providing punishment on one side, and satisfaction on the other. If a shilling's value be lost to us through fraud or theft, we have the whole machinery of law ready at our hand for the quick restitution of the loss, or the severe punishment of the offender. Are health and life—the most valued of our possessions—of less consequence, or more easily protected? Or, are they in less danger from negligence, ignorance, avarice ! We say, then, that our present loose, irrefor their breach of duty to the people. We | gular, and heterogeneous system, which

makes human health and life dependent on chance-discretion, chance-knowledge, chance-industry, chance-virtue, nay, even chance-good-humour, is replete with calamities for the public, and that it is the immediate duty of government carefully to provide its people with the very best system that enlightenment can suggest and wisdom enforce, in reference to all the relations the public have or may have with any portion of the medical community.

If there were wanting any collateral proof of the striking absurdity of leaving the body of druggists in their present anomalous and manslaughtering position, we find it abundantly offered in the singular fact of their uniting themselves into an association, for the avowed purpose of doing the government's duty-doing that which every other government in Europe has done for the same class of tradesmen-Since the day that Don Quixote set upon his enterprize of protecting the distressed virtue of Spain, there never was a scheme half so enormously extravagant as that of the concoctors of the Pharmaceutical Society. Except the absurdity it pretends to cure, nothing in the present age of common place wonders distantly resembles its absurdity. It is not only a libel on the government, and on the character of our country tor enlightenment, but on that common sense, for which British tradesmen have been so pre-eminently distinguished. They-the drug vendors of London-arc to raise the English Pharmaccutists, (the very word applied to our druggists conveys a volume of satire) to the level of the educated pharmacien of France and the continent, to put them in keeping with the advance of the science, in harmony with the wants of the age, -in one word alone, and unassisted by law, to reconcile their confreres' ignorance, their negligence, their ambitious avarice, with the claims of justice, the requisitions of science, and the safety and comfort of society. Did a fevered patient ever dream of anything so preposterous?

Without education themselves they are to secure the education of their brethrenunexamined themselves they are to examine them. Without a diploma themselves, save a self given one, they are to impose diplomas on other's. Without authority to advise, they are to command-without power to enforce, they are to punish; in one word, they are to give what they have not got, to do what they can't!

In the name of common sense, in what way, or by what agency do these gentlemen expect to do any good? What is wanted are the very things which the men they represent are most interested in opposing. First, how insure competency? If the men are competent no examination do they need. If they are not, no examination need they stand. And how enforce it? By giving them the privilege of paying a guinea a year, pro bono publico, with the chance for a larger sum, and a greater expenditure of study, of getting a diploma, which is not worth the price of its printing, an orna- perfections in the founders!"

mented elching, 24 inches by 19½, signed by some brace of London shopkeepers, possessed gratuitously by hundreds of tinkers and tailors, who thought proper to sell drugs, and apply for it some twelve months precedently! Why, if they even insisted on an examination distantly respectable-insisted even on a reduced scale of competency, the society would be extinct before the next annual subscription. If we wanted evidence of this we have it in the September number of the Society's organ, which favours us with these significant admissions. "In the law respecting examination, an exception was introduced, empowering the Council to admit, without examination, on payment of an entrance fee, such persons as had been actually in business on their own account prior to July 1st, and who might fairly claim this indulgence!" Again, "the Council have determined to moderate the severity of both the minor and major examinations in the first instance,' And, secondly, how secure their brethren's respectability, when they dare not express, even an opinion on the common, universal crime of druggists' prescribing and even visiting? Why, of the three or four thousand members or associates they have on their books, we would defy them to name one hundred who do not desert the legitimate calling of pharmacy—and peril human life, for the paltry prospect of selling an extra box of pills, or a mixture.

We say, then, to these geutlemen, that tumid as now looks your society, it is only expanding to burst the more surely. Like a lofty house of eards, you cannot touch or breathe on it without renewed danger of its fall. Like the mist of a summer morning, created, illuminated, beautified by the rays of the very body that will yet disperse it; a short time has only to pass, and the seene will reveal to our gaze but the place where it has been! Already you feel that you have raised a power, which, incapable of controlling itself, is beyond the control of its ereators-which moulds, who thought of moulding-governs, who thought of governing-and makes the law of your movements not what is right, but what is safe; not what is just, but what will please: and we need no gift of propheey to assure you that every hope your society has nursed, it will falsify—every expectation it has raised, it will frustrate—the divisions it would soothe it will exasperate—the bad practices it would annihilate, it will fortify; and, living a thing of promises, and dying an object of pity or of laughter, will deserve to have its epitaph written something in this fashion!-

"A well meant project-vife of good reelings, and naked of good thoughts, which, originating in the luxuriance of benevolence, was sustained for a while by the excesses of imagination, and perished prematurely of that malady fatal to so many other members of the Family of speculations—the want of heroic perfectious in the public-and of common-sense imCV2E2 OF LEBITONEVE PECTION 10R THE

EXTIRPATION OF DISEASED OVARIA. BY 1111. LARGE INCISION FROM STERNUM TO PUBLS, SUCCESSFULLY TREATED.

Ey CHARLS CLAY, Member of the Royal College of Physicians, Loudon, of the College of Succeous, Edinburgh, and Lecturer on Medical Jurisprudence, &c. Precadilly, Manchester.

THE following remarkable and important case is, I believe, the first instance of this operation (by the large incision), having been performed in England as practised by Dr. Macdowal, of Kentucky, in America, and Mr. Lizars, of Edinburgh, for the particulars of which I refer the reader to the valuable and able work of Mr. Lizars, on the extraction of diseased ovaria, who has entered so largely and elaborately into the history as well as the arguments for and against this bold operation, strengthened by his own experience, as to render my labour in the following details comparatively easy. The success of the operation I am now recording is even more gratifying to me than the fact of its being the first (as I stated before) in England. On this point, however, I do not wish to be misunderstood; I am aware of the cases recorded in England, where an operation was performed, having for its object the removal of the ovarian cyst, by Messrs Jeffreson, King, West, and Philips, the majority of whom were unfortunate in their results; it is, however, necessary to state, that the plan of operation pursued in those cases, was the one recommended by Mr. Jeffreson; viz., A small incision of one and a half or two inches in length in the abdominal parietes, through which incision the ovarian sac was then punctured with a trocar, and when emptied of its contents, the sac itself drawn through the incision, its pedicle tied and separated. On the contrary, the operation performed by Dr. Macdowal, of Kentucky, in America, Mr. Lizars of Edinburgh, and myself, is widely different. A large incision of eighteen or twenty inches in length, or from the ensiform cartilage to the pubes, the ovarian turnour fully exposed, its pedicle and adhesions separated, its vessels secured, and the whole mass removed entire. A slight glance will be sufficient to distinguish the difference between these operations. After having given the particulars of the case on which I have operated, I shall make some general observations, as to the comparative merits of the plans alluded to; and endeavour to justify some little deviation, not only in the plan of operating, but also as to the subsequent treatment from what has been pursued by others. I shall then, in the first instance, direct the attention of the reader to the early history of the case.

EARLY HISTORY OF THE CASE OF MARY WHEELER.

Mrs. Wheleer, of 75 Heyrod Street, Ancoats, Manchester, applied to me on the 10th of June, 1842, for my opinion, in consequence of an abdominal enlargement, which had existed three years or upwards, and about which she felt very uneasy. The following particulars were related by her; she was then in her toth year, had always enjoyed a tolerable share of good health; she had had eight living children, and one miscarriage, and was twenty-three years old when the first child was born. At the latter end of 1839, she began sensibly to enlarge at the lower part of the abdomen, as though she was in a state of pregnancy. The swelling might have been of longer duration, but it did not particularly arrest her attention till the period above stated; at this time, her neighbours rallied her on being in the pregnant state, but she did not think her self so, as menstruation appeared at regular intervals. From February, 1840, the enlargement in-

creased more rapidly, still the catamenia re- also considered by Dr. Radford and myself that gularly appeared. From the first commencement of the enlargement, to the latest period of its existence, she never felt any particular pain from first to last; the sensation was more that of weight, and incumbrance, than any thing else; nor can she recollect on which side the culargement first began; but thinks she felt more inconvenience, and earlier, on the right, than on the left side. In the autumn of 1841, she consulted different medical men, none of whom, gave her any hopes of relief, and one told her it might burst of itself. She was of a constipated habit, never remembers having received any injury, had no occupation but that of attending her family, and recovered well and

rapidly from all her confinements. At the time of her consulting me (June 10th 1842) she was much emaciated, tall in person. of a sallow countenance, and appeared as large as a temale in the ninth month of gestation; menstruation still regular, complained of great weight and incumberance, but had not suffered any particular pain. I proposed calling on her at her own house, with the view of making a proper investigation; to which she readily consented. On examination, per vaginam, I found the coats of the vaginal canal protruding outwards to a considerable extent, which circumstance must have existed for some time, as the parts protruding had lost their natural texture and character, and were hard and dry, as a piece of fish skin; the pelvie cavity was filled by a large tumour, so completely, that its extent could neither be defined, nor could it be moved by the finger in the slightest degree; the tumour appeared distinct from the uterus, and the uterus itself was lifted up higher out of the pelvis than usual, and the os uteri rested against the upper and inner portion of the symphisis pubis, and was very much flattened; the external abdominal parietes presented to view a distention quite equal to the ninth month of utero gestation,it was of very unequal character, exhibiting protuberances in various parts, not unlike what the head, limbs, &c., of a child would present if escaped from the uterine eavity, and lying immediately under the parietes of the abdomen, rendered thin by great distention. The case was evidently an enormous tumour, occupying the whole abdominal and pelvic cavities, and from its unequal appearance, was, in all probability, con posed of various sacs. The vagueness of its history, and its central position, did not clearly point out where its attachment might be, though it was most probably to the uterus or its appendages—the ovaria; the tumour was easily movable under the parietes, and a small quantity of ascitie fluid had been deposited in the abdominal cavity, which gave the tumour the feeling of floating in fluid, and led to the opinion that it had no adhesious beyond its pedicle, by which it was attached. The left iliac region was more densely tilled than the right; but the history of the case rather encouraged the idea that the origin of the disease was on the right side. I requested my friend, Dr. Radford, (an experienced practitioner and physician to the Manchester and Salford Lying-Inn Hospital,) to give me his opinion on the case; who, after a most careful examination, pronounced it decidedly an ovarian tumour of considerable size, with a small quantity of ascitic fluid, and, from its mobility under the parietes, he considered there could not be any adhesions beyond its principal attachment; that it most probably arose from the broad ligament on the right side. I afterwards obtained the opinion of several other medical friends on whose judgment I had great reliance, all of whom confirmed the opinions previously given. It was by L'Aumonier, in France, and one by my-

no effectual means of relief presented itself but that of extirpation. In the meantime a trial of the iodine was adopted for some weeks, but without any sensible diminution of bulk. and as the size of the tumour was too great to expect relief by absorption, and the system appeared to suffer from the effects, of the iodine, I at once discontinuedit, particularly as my patient began to express herself earnestly desirous of an operation-respecting which I neither persnaded her to, nor dissnaded her from, but faithfully detailed to her the importance and magnitude of the means she sought-pointed out the particulars of every case on record, with the results, and rather, if anything, depreciated than added to the chances of reco-Still she was determined I should operate, and the calm, deliberate manner in which she weighed the matter, convinced me I had a woman of no ordinary nerve to deal with -and that, in itself, was a point of eonsiderable promise towards ultimate success. Under this view I promised to perform the operation, provided I could obtain the sanction and co-operation of my medical friends, for which purpose I again solicited their attention to the case, with the view of extirpation; amongst whom Mr. Wilson, a surgeon of great experience here, approved of the plan proposed, and with the promise of their cordial co-operation, I fixed on the afternoon of the 12th of September, 1842, for that purpose. I now felt fully sensible of the deep responsibility I had undertaken, in engaging to perform an operation that had no precedent in this country, and but few elsewhere; an operation that yielded to none in its importance, and, as to magnitude, greater than any other in the field of operative surgery. The difficulty of obtaining the countenance of my medical brethren, in a path untrodden before in this kingdom, came over me in full force; but the woman's earnest appeal for relief, and a consciousness that no other mode of effectual relief presented itself, that I had not sought it for the mere whim, determined me to meet the matter fairly and abide by the result; although I was perfectly aware that if the case proved unfortunate the world would not be wanting in arguments to condemn me for rashness, if not for an unjustifiable attempt to render myself notorious. But professional men well know that the notoriety attending unfortunate results of operative surgery is far from being enviable, and more than counterbalances the good from the successful attempts: hence the truth of the old adage-"a good report goes far, but a bad one much farther." That the public may frequently commit an error of judgment in such cases I can readily conceive, from the incapability of ascertaining the true nature of all the pros and cons connected with the subject, but it is to be regretted when professional men condescend to be partial in their judgment. As an instance I might quote Dr. lugleby, of Birmingham, who, in his public capacity as a teacher, says, "of Mr. Li. ars' cases I forbear to speak;" after which he proceeds to advocate the plan, as proposed by Mr. Jeffreson. Now, what is the fact? In many cases, as I shall afterwards prove, the mode pursued by Mr. Jeffreson is not only impracticable, but really absurd; and at the very time Dr. Ingleby makes his assertion, more eases had been successful according to the number operated upon by Mr. Lizars' plan than that of Mr. Jeffreson. I find connected with the Jeffreson mode eight cases, of which five were fatal. With that of Mr. Lizars', four by himself, three by Dr. Macdowal, of Ken-

self, making eight, of which only one was fatal, and that with great propriety might have been attributed to other causes. these circumstances, I need scarcely add that I determined in favour of the large incision, as proposed by Mr. Lizars' and Dr. Macdowal, of America.

PREPARATORY TO THE OPERATION.

Having therefore, fixed on the 12th Sept. 1842, I called on my patient on the evening of the 11th, found her in excellent spirits, pulse 70, calm and soft. I gave her ten grains of inspissated ox-gall, ordering a repetition of the dose early in the morning, it' the bowels had not been previously moved. In the forenoon of the following day (the 12th) I found the bowels had been effectually cleared of feeal matter, accompanied with considerable flatus. The thermometer indicated the temperature to he 68 deg, and the room not being a large one, coupled with the expectation of six or seven medical friends at the operation, I judged it unnecessary to raise the temperature artificially. At three o'clock p.m. the following gentlemen assembled at my own house:—Dr. Radford, Dr. Black, Messrs, W. C. Vaudrey, Nursaw, G. Southam, J. J. Southam, surgeons, and Mr. Higginbottom, nephew to Dr. Radford.

Before proceeding to my patient, I stated very briefly to the above gentlemen, the plans I wished to put linto practice; embracing the following particulars. 1st. That I considered the temperature of the apartment would be sufficient when all were assembled in it, without raising it artificially. 2nd. That in the first incision I should leave the umbilicus to the left, but approach the central line as nearly as possible, from sternum to pubes, believing I should find the pedicle attached to the right broad ligament of the nterus, as slightly indicated by the history of the case. 3rd, To prevent eversion of any part of the wound when brought together by suture, I had taken the precaution of marking the abdomen with fine thread, dipped in a solution of nitrate of silver, crosswise to the incision, that the same parts might be brought in exact apposition when the tumour was removed, and the parts flaceid. 4th. That I should use more of the interrupted sutures, than had been done in the eases by Mr. Lizars. 5th. That I did not wish the intestines to be handled even though they might escape from the wound, during the operation, until the tumour was entirely removed; but that if it was necessary to protect them from cold, I had provided cloths and warm water in which lard would be dissolved for that purpose. 6th. That if adhesions existed I should use the knife for separating them, and not force them asunder with the fingers unless of a very recent character. 7th. That in the after treatment I should avoid, as much as possible, opiates and stimulants.

I then, accompanied by my medical friends, proceeded to the house of my patient : she was cheerful, and free from excitement, having prepared everything for the occasion that was thought necessary. The pulse still stood at 70; soft and compressible

OPERATION.

I placed my patient on a long narrow table covered with blankets, her head a little raised with pillows, and the abdominal parietes so situated that the best light the room afforded fell upon the part to be operated on; taking my station on the patient's right side, with a large scalpel, I severed the integuments from within a short distance of the ensiform cartilage, to the pubes at one stroke; at this time it was remarked, how extremely thin the integuments were immediately over the umbilical region, which formed the most prominent part of the tumour, being scarcely thicker than strong

paper. I now carefully cut through the peritoneum, at the upper end of the first incision nearest the stermin, sufficiently to introduce two fingers of my left hand, which I had no sooner done, than I met with an adhesion, but which must have been recent, as it gave way easily before the fingers. I now introduced the probe pointed histoury, and, under the protection of my fingers already introduced, lest the abdominal viscera should be injured, I cut with the bistoury the peritoneum equal to the outward incision. At this moment, none, but those who have witnessed such a scene, could have any idea of the extent and formidable appearance of the operation -- the incision from sternum to pubis over the bulky tumour could not be less than twenty-four inches (being eighteen when the parts were flaccid subsequently), perhaps as large an incision as ever was made in the living subject; the parietes of the abdomen rapidly retiring laterally, and the enormous tumour (as it were) springing forward, was sufficient to startle the coolest and most determined individual. The uterus was lifted up from its normal position, and lay flattened against the anterior, and inferior, part of the tumour; its right broad ligament expanded on, and connected with, the tumour, forming its pedicle. The uterus as well as the appendages on the left side were perfectly healthy; the pedicle was then secured by a strong ligature, and separated; the tumour being firmly attached to about three inches of the broad ligament. On separating the pedicle, which was of considerable thickness, it was found that the main ligature did not prevent the vessels (that passed through it to supply the tumour) from freely pouring out blood; and it therefore became necessary to take them up in separate ligatures, one end of each being brought outwards with the main ligature of the pedicle. I now passed my hand round the tumour in search of adhesions; three or four of very recent character presented themselves, which gave way to the slightest touch of the fingers, and required no scalpel for their separation, but on the upper surface of the tumour, higher than the umbilious and on the patient's left side, an omental adhesion, spreading for some space on the tumour, shewed itself; this I separated with the scalpel, when a small vessel poured out blood freely, which I secured and cut the ligature off close. My friend Mr. W. C. Vaudrey had now held the tumour raised for some time, to facilitate my search for adhesions; when all appeared clear I placed my hands in the iliac regions, and assisted him in raising the lange mass fairly from the abdominal eavity, in doing which a considerable force was required as the pelvie portion of the tumour filled that cavity so completely, that it felt similar to the attempt of pulling off a well exhausted cupping glass, from some fleshy part of the body. Dr. Radford and Mr Vaudrey paid every attention to the patient and gave her a tea-spoonful or two of brandy and water, whilst I immediately but temporarily brought the parietes of the abdomen together; Mr. Nursaw and Mr Southam kept them in their position, and I continued to sponge the lower part of the incision, as long as any fluid shewed itself, which was chiefly the remains of the ascitic deposit slightly tinged with the little blood that had been lost in securing the vessels of the pedicle; long as this account may appear, the time consumed up to this, was only twelve minutes and a half, and (as I had no ambition of making it a bloodless operation) about fourteen onnees were lost rather more than in all probability would have been, inconsequence of one of the ligatures missing its hold, but, after all, no more than (in my opi-

nion) benefitted the patient afterwards. The integuments were brought together by nine stitches, and straps of adhesive plaister between each, with long straps over the ends of the cross straps; and two long pads of linen were laid on either side of the incision, and over all a stout bandage of some breadth. My patient was then earefully lifted into bed, about fortyfive minutes from the commencement; cheerful, and complaining only of a pain about the last lumbar vertebre and right iliac region, which I attributed to the extension of the pedicle during the operation, which, though as little as possible, it was impossible wholly to avoid. The subsequent treatment of the case will in a great measure be tabulated in order that every particular may be recorded, and yet in a manner that will occupy less space, and with less tautology than by any other means. Before the treatment is entered upon however, it will be as well to state some particulars respecting the tumour.

(To be continued.)

REVIEWS.

Commentaries on some Doctrines of a Dangerous Tendency in Medicine, and on the General Principles of Safe Practice. By Sir Alexander Criminon, M. D., F. R. S., Physician to the Emperor of Russia &c. Churchill. London.

WE have been exceedingly pleased with this work. It contains a great deal that many physicians have forgot, and much that a great many never knew; for, it has been the fashion within the last five and twenty years, to eschew Galen and Hippocrates, to contemn Cullen and his school, to sneer at Good and his sesquipedulia verba, and to forget Young and Sydenham, and Fordyee, and Cheyne and Friend, and all the old and venerated Medici of ancient days, and to worship, in their stead, a host of French and German, and some few English adventurers in physic, who, like the Governor of Barataria, renowned Sancho, fancy that every thing they say or do is new, because they know not what was said and done, and better said and done, by their betters who preceded them. But before we touch upon the marrow of the work, let us ask Sir Alexander-and we put the query with a diffidence which we own we do not generally experience when immolating lesser victims on the altar of our criticism-has he ever seen, inquired into, or taken any pains to acquaint himself with that "species of modern necromancy" (by which he means mesmerism), so unceremoniously condemned in the following man-

I might have hinted, for instance, at the juggleries of a species of modern necromancy, which has found advocates and professors among regularly educated physicians of this and other comtries; but I should as soon have thought it worth while to examine seriously the mysteries of the Jewish Cabbala, by which the truly learned Fludd, in the 16th century, explained physiology and the phenomena of nature, or to have attempted to account for the practice and conscientious conviction of Valentine Greatix, who, in the beginning of the 17th century, pretended to cure all diseases by the imposition of his hand, p. 10-11.

We ask this question, because we suspect from the tenor of these remarks that the doctor has never witnessed a pure case of mesmerism; or if he has, he has not displayed his usual impartiality and good sense. Mesmerism may, or may not be true, for ought we shall assume in this article; but we insist that this is not the legitimate mode of refuting a fallacy or exposing an imposition. Did the author forget, that without one solitary exception, every medicament, every drug, every remedy, every of the blood.

eccroprotic (to use his own language), owes its present position in the pharmacopoceia, to chance, to accident, in a word, empiricism? Phraates, the son of that Orodes, whose brntality to Crassus Plutarch records, attempted topoison his father with monk's bane, but the poison cured him of a dropsy. Paracelsus seeking the Elixir of Life, discovered alcohol; Van Helmont, hartshorn; Glauber, the salts that go by his name; and Galvani, preparing soup for his wife, developed the principle of Galvanism. The same may be said of Jesuit's back, of mercury, of antimony, of iodine, of valerian, of foxglove, of, in short, all our active remedies, and indeed of some of the common necessaries A quaint writer informs us, that certain monks of Arabia, having observed that the goats which fed on the berries of the coffee shrub, evinced extraordinary powers of amativeness, and being interested in the experiment, tried them on themselves, and were so gratified by the results that they introduced coffee into general use. The Nauplians, says Swift, were taught to prune their vines, by observing that those hore best on which their asses had been browsing; and is it not more philosophical, more natural, and more in accordance with the amenities of life, to inquire first into the merits of a system, or virtues of a particular remedy, rather than to condemn either the one or the other on some preconceived theory? The Nauplians did not refuse to avail themselves of the process of pruning, merely because they had learned it from asses. The query simply is, did Greatrix, or did he not, perform the cures attributed to him? This is the first step in the procedure; if we are to credit the testimony of the Earl of Orrery, Mr. Boyle, the Earl of Ormand, and numerous other respectable witnesses, and we see no reason to doubt it; he did perform certain very extraordinary cures; is the modus operandi (of which, by the way, he expressed himself unable to give any account whatever) not worthy of investigation? "How were these cures effected?" "By imagination! solely by imagination!" replies Dr. Crichton; "Granted. They are nevertheless cures!"

This, we think, is the proper mode of reasoning, and not that dogmatic don't-contradictme-hold-your-tongue sort of argument, which is too common in the profession, and which Dr. Crichton is old enough to recollect Dr. Moseley applied to vaccination, and he must have read, Gny Patin turned against antimony and all its preparations. And, to continue the parallel:-Was it not this haughty self-suffieiency, this terrible adherence to prejudice or preconceived opinions, which called for Fagon's defence of the Harveian theory of the circula. tion, and compelled Fabrit to publish his apology for the use of the Peruvian bank? An apology for the use of the Peruvian bark! Think of that Dr. Crichton, and then ask yourself, if any one of the numerous fashionable demi-educated men who roll about their chariots in the West-end, or the ill-paid tropictried army surgeons who broil their livers away in an atmosphere of brandy and sunshine, would believe that such a book had been absolutely necessary? Has Dr. Crichton forgotten that Malpighi disinherited his heirs because they allowed blisters to be put upon him when

^{*} It may, perhaps, subject us to the charge of mendacity, when we say that we saw a book written some lifteen years ago, we think by a Dr., Gordon, to prove the Harveian theory a delasion! As far as we remember it was a clever performance. Is not this another proof of the uncertainty attending all physiological speculations, or, if the word be offensive, facts?

onensive, access
† Fabri was a Jesuit, who distinguished himself
by laying claim to the discovery of the circulation

he was speechless? Or that Brissot was banished for bleeding in pleurisy? Or that it was once necessary to have the consent of the Privy Council before any of the Royal Family could be blooded?* Lord Kames says that in his time, it was common to swallow stones to aid digestion (this was by recommendation of the faculty), and tells an anecdote of Francis the First of France, which is not inapplicable here. In the days of Francis, the professors of the practice of physic were confined to the persons of the Jewish persuasion; he, therefore, applied to the Emperor, Charles the Fifth of Spain, to provide him with a Hebrew physician. The latter complied with his request, but sent him a doctor who had been converted to Christianity: but when Francis learned this, he dismissed him, on which Lord Kames remarks .-" As, if a Jew were to lose his skill on being converted to Christianity, why did not the king order his own physicians to be converted to Judaism?"

Sir Arthur Clarke on Consumption says, -"One physician (Stohl) attributes the frequency of consumption to the introduction of the Peruvian bark. Another (Morton) considers the bark an effectual cure. A third (Reid) as-eribes the frequency of the disease to the use of mercury. A fourth (Brillonet) asserts that it is only curable by this mineral. (Rush) says, that consumption is an inflammatory disease, and should be treated by bleeding, purging, cooling medicines and starvation. Whilst a sixth (Salvadori) says it is a disease of debility, and should be treated by tonies, stimulating remedies, and a generous diet. Galen recommended vinegar as the best preventive of consumption, Dessault and others assert that consumption is brought on by a common practice of young people taking vine-gar to prevent obesity. Dr. Beddoes recommended fox-glove as a specific in consumption. Dr. Parr found fox-glove more injurious in practice than beneficial." But we must desist here, for similar instances of diversity of opinion could be collected on almost every disease to which the human body is subject, and every fact that physiology has discovered; and to what end have we collected these facts? Simply because we are desirous of shewing not only to Sir Alexander Crichton but to our junior readers, the students of this vast metro-polis, the "Follyt of Dogmatism;" and as we shall have occasion to follow up the argument when we come to consider the treatment of fever recommended by Sir Alexander Crichton, we shall now proceed secundem artem.

The following remark is judicious, and of its truth we entertain not the slightest doubt:-

At the moment I am writing these lines I am in my seventy ninth year, and having passed the greater part of my life in the active pursuits of the medical profession, I cannot believe, now that I have retired from general practice, that the freedom of my animadversions will be attributed to false ambition, or to any unworthy motive, but rather to the true one, namely a sincere desire of rendering some service to an useful and a very difficult art. p. 11.

Sir Alexander again very judiciously re-

Medicine is a science of observation and discovery, the deductions from which are employed for the maintenance of health, and the elucidation and cure of diseases. Some of the facts which are colbeted by patient and correct observation, as well

are of so simple, clear, and unmixed a character, as to command at once a perfect unanimity of opinion concerning them. But others, (and these are unfortunately by far the most numerous) are of so complicated, unsteady, and fleeting a nature, as to be of difficult scrutiny, and to be differently seen and described by different individuals, and, consequently they do not serve the purpose of correct reasoning.—p. 12.

We pass over the remaining portion of the ntroduction, though there is searcely a line which is not worthy of transcription, and proceed to what may be termed the subject matter. of the book, or, as before remarked, the marrow. But yet we cannot avoid transcribing to our pages the following very acute and very happy remarks. After having stated, that man is doomed to depend for life and happiness on the exercise of imperfeet rather than of perfeet sciences, Dr. Crichton, thus writes and how truly!—"Such is the case with the PRETENDED sciences of government and legislation, of finance. of trade, commerce and political economy. doctrines of these highly-favoured and nobly rewarded sciences are as unsettled, hypothetical, and contradictory, as those of medicine; not merely because, as in medicine, many of the facts on which they are built cannot be proved to be true, or because they are complicated, changeable in their nature, difficult to be colleeted, or methodically arranged, but also, because the professors of such sciences are exposed to causes which tend at all times to disturb their judgment, and from which the physician is happily free, namely, strong and baneful passions arising from the lust of power, party spirit, and political hatred. Over these highly-honoured sciences medicine may boast of one advantage, with which its professors, as a body, may console themselves in their humbler path of life. The errors of their opinions and practice can only affect the welfare of one individual at a time, whereas the crude hypotheses and vagaries of an empirical statesman, law-giver, financier, or political economist, or of a board of trade, when carried into execution, may destroy the happiness of a whole nation at once, or, at least, seriously injure the interests of numerous classes of its inhabitants." p. 14.

Dr. Crichton thinks, that though the symptoms of diseases are generally understood, vet this knowledge is far from being so complete as is desirable; and in support of his opinion, instances affections of the brain, spinal cord, heart, liver, and digestive organs-" the true distinctive symptoms of which are by no means agreed upon." He hopes, however, that frequent and attentive post mortem observations may throw light not merely on the art of recognizing diseases, but of elucidating their nature. He is encouraged in his expectations by reflecting on what Lacanec, Andral, Broussai, Pinel, Esquirol, Georget, Foville, and others have done for semiotics; but we believe this to be, in a great measure, illusory.

Dr. Crichton thinks, that a great obstacle to the proper understanding of the nature of diseases has arisen from the premature desire to explain them; but he does not deny that hypotheses have been, to a certain extent, convenient, if not useful.

It may startle many when I declare it to be my opinion that there is no such thing in nature as a proximate cause of any complicated disease, such as typhus, in which every function of the body is more or less deranged.-p. 18.

We do not, we own, understand this, neither does the following explanation quite obviate the obscurity:

The only true cause of the complaint is that which is foolishly called a remote one, being that

as those which are discovered by mere accident, vitality and the physical forces which exert their power on our solids and fluids, and on a due balance between which health depends. In fevers, many of the earliest symptoms appear synchronously, and are by no means consequences of each other. They spring simultaneously from the first influence of the exciting cause. Afterwards, indeed, there follows a succession of causes and consequences, but none of them of so influential a character as to merit the appellation of a proximate cause of the disease.-p. 19.

> Are we to understand by this, that Dr. Crichton considers "proximate cause" as a cause, or origin of, rather than the disease itself? The proximate cause of a disease we have generally understood to mean the disease itself: for example-yellowness of the conjunctiva, skin, constipation, with clay-colored fæces, &c , constitute, together, an abnormal condition of the system, which we call icterus, or jaundice. Does Dr. Crichton, then, mean to say that there is no such thing as jaundice? It is possible we have misinterpreted our author, or he has misrepresented his meaning; but, at the text stands, we own we cannot understand it.

> We pass now from the Introduction, which is a lucid summary of the contents of the volume, and proceed to the "Commentaries" themselves.

The first, "On the Functions of the Heart and Arteries in Health and Disease," is extremely important, extremely interesting, and extremely valuable. We feel, in reading it, that we are conversing with a thorough bred physician - a man of theory, of knowledge, and experience. Justice is here done to one whose elaborate essay on the blood, forming the subject of the Croonian Lecture for 1809, has been wellnigh forgotten in the fanfaronade of new-fangled theories, which have little to recommend them but the position of their promulgators. We allude to Dr. Thomas Young-a name which ought to be hallowed by every physiologist. We present an imperfect summary of this chapter, referring the reader to the work itself for further information.

Dr. Crichton laments, that, after the lapse of more than two centuries since the discovery of the circulation of blood, there should be still some difference of opinion among physiologists of equal reputation, as to the true action of the arteries and eapillary vessels; since, though the "force" on which organic move-ments depend is still a mystery, yet minute anatomy, chemistry, and experiment " are sufficient to settle the question.

En passant, we may remark, that this very subject is a good argument against the doctor for refusing to inquire into the truth of a "species of modern necromancy;" since, if what he thinks so obvious "modern physiologists of equal reputation" find involved in uncertainty, if not obscurity, how much more allowance should be made for the believers in mesmerism, who, to a man, pretend to offer no explanation of its modus operandi, but content themselves with stating what appear to

Until the publication of the Croonian Lecture of Dr. Young it was the generally received opinion "that the blood, after its expulsion from the heart, was propelled in the arteries, and especially in the capillaries, by a regular succession of muscular contractions and relaxations of these vessels, which were similar in kind, though not in degree, to the systole and diastole of the ventricles and aurieles of the heart." p. 2. This doctrine, originating from Haller, the author contends was founded in an anatomical mistake, viz., that the middle coat of the arteries was muscular. More careful which first disturbs the relationship between examination, however, has proved this opinion

^{*} Sir Charles Scarborough, in the case of Charles the Second, was the first who ventured to let blood without consulting the Privy Council. For his promptitude on the occasion the Council voted him one thousand guineas, but forgot to enforce their own resolution!

[†] See Glanvil's valuable work with this title.

erroneous; and behold the proofs! Admitting that the function of the arteries and eapillaries consists in alternate contraction and relaxation, Dr. Young shewed by simple ealculation that the motion of the blood could not be promoted by such action; for the contraction would oppose progressive motion by a repetition of mechanical hindrances, while relaxation would induce a similar effect by distending the parietes of the artery, and thus allowing more space for the volume of blood.

Every ramification or branch of the aortic system must be supposed to act in a similar manner; the length of the portions contracting and relaxing, necessarily varying with their diameters, and, conunently, with the length of the vessel requisite to receive the blood so propelled from one of a greater eapacity.—p. 5.

Much of Dr. Young's reasoning was based on the experiments of Hales and Keil, and he argues "that the blood in the human arteries is subjected to a pressure from the action of the heart, which is measured by a column of seven and a half feet, whereas, in the veins the column does not rise more than six inches." p. 7. Keil proved this by comparing the quantity of blood which flowed in a given time from the divided erural artery and vein of a dog, and the quantity obtained from the artery, as compared with the vein, (the space of time allotted to each experiment being equal) was as seven and a half to three, and according to the experiment of Hales, the loss of momentum was equal to the pressure of a column of blood of seven feet .-- p. s. We cannot follow the author more closely for reasons which are too obvious to be mentioned, and we therefore quote the following conclusive passage and leave this part of the subject for the private investigation of our readers :-

Suppose the left ventricle to eject about an ounce and a half of blood (J. Müller says, two ounces) at each contraction, and that there are seventy-ave such contractions, and consequently pulsations, per minute, it then follows, by the calculations of Dr. Young, that the mean velocity of the blood in the aorta, is 85 inches per second of time; the velocity in each of the succeeding segments of the artery must of course be smaller in proportion as the joint area of the branches are larger than the area of the aorta or chief trunk. It must also be recollected that the acrta is already distended with blood, though not fully so, when the ventricle contracts. When this happens, it suffers an additional, though only a minute, dilatation. It is this sudden swelling of the artery which produces the pulsation, and which is transmitted with such celerity to the remotest capillary. But this is the mere motion of a wave or undulation of the blood. It is not a succession of muscular action in the artery. This wave, according to Young's accurate calculation, travels at the rate of sixteen feet per second; whereas the blood, even in the aorta, does not move forward at a greater rate than eight inches per second. Deducting this from the motion of the wave, it leaves about fifteen and a half feet per second for the real motion of the pulse; the pulse, therefore, being an indication of a mere wave or undulation of the fluid, has no more relationship to its actual progressive motion, than the waves which are formed by throwing stones in a river have with its actual current. It is as distinct as the undulations of sound are from the currents of air or of the wind; and, consequently, the rate of pulsation cannot be an index of the progressive motion of the whole mass of blood. pp. 9 and 10.

In the "Inquiry Continued," which is an appendix, or rather, extension of the first commentary, we are thus instructed by the following able resume :-

Independently of the profound calculations and convincing arguments which are brought forward

clusion he arrives at receives confirmation from many recent anatomical observations of Hildebrant, Bichat, Döllinger, Rudolphi, Hodgkin, and Bright. The two latter, eminent practical physicians and physiologists, concur in asserting that the middle coat of arteries, when examined with a good microscope, exhibits a different structure from that of muscles, inasmuch as the tranverse stria, which belong to these last bodies, are totally wanting in the middle tunic of arteries; and Dollinger has shewn that the capillaries of the middle funic of arteries are distributed throughout its structure in an arborescent form, while, in muscles, they form a net-work, which surrounds each fibre. This is in itself a strong argument; but the analysis of muscular fibre, and of the middle coat of the arteries by Berzelius, settles the matter still more completely, for in the tunic of arteries he could not detect a portion of fibrine, which is so abundant and essential an ingredient in muscles. Water abounds in muscular fibres as well as fibrine; whereas the middle tunic of arteries is comparatively dry. Muscular fibre, like fibrine, is soluble in acetic acid; the arterial coat is not so. The solutions of arterial fibre do not exhibit any precipitate by means of ferro-cyanites, nor by alcalies, which, however, would happen, did they contain fibrine.—pp. 19-20.

From these extracts it will be seen that we do not in any way incline to the theory of Haller, so ably, but erroneously, supported by Dr. Wilson Philip. But, as it is impossible here to give our reasons for this opinion, to the very valuable work of Dr. Crichton we must beg to refer the reader, who if he desire to acquire information, or if he seek only to renew knowledge, will find his time profitably expended, his perseverance amply rewarded, and his understanding vastly enlightened by even a enrsory perusal; nor will be rise from the study of this commentary wearied and disgusted, but invigorated and gratified, for whatever it is useful to know, or pleasant to read, -whatever will guide him in practice, and enchain him in study, connected with the rexata quæstio of arterial action, -is here collected, arranged, collated, and descanted upon with temper, knowledge, and moderation.

We delay what we have to offer on the other commentaries to our next number.

Electrotype Manipulation, &c. 10th Edition: by Charles V. Walker .- George Knight and Sons.

This is a work by the clever secretary of the London Electrical Society, who professes to give, in Part 1, the explanation of the theory, and instructions in the art, of working in metals, by precipitating them from their solutions, through the agency of Galvanic or Voltaic electricity: and, in Part 2, a similar elucidation with respect to electro-plating, electro-gilding, and electro-etching, with an account of the several applications of electrotype in the arts. The little work is lucidly and cleverly written, liberally illustrated by wood-cuts, and neatly got up; to all those interested in the interesting subject it treats upon, we can strongly recommend it.

An Essay on Diabetes, by H. Bell, D.M.P., one of the Librarians of the Faculty of Me dicine, of Paris. Translated by ALTRED MARKWICK, late Externe to the Hopital des Veneriens, Paris, member of the Parisian Medical Society.

THE Essay before us is a condensed, but still very comprehensive detail, of all that was known up to the time of its appearance, of that stillnot sufficiently understood disease, diabetes. During its perusal we were strongly reminded of an essay on the same subject by Dr. J. L. Bardsley, forming the article "Diabetes" in the by Dr. Young against the hypothesis of an independent muscular action of the arteries, the con-

more practically useful matter in the essay before us. In making a few brief comments, we shall take the various departments of the essay in the order in which they stand. In the division of his subjects we think the author has rather complicated, than simplified, the study, by admitting so many varieties of the disease, as "diabetes mellitus, diabetes with fatty matter, ureous diabetes, and aqueous diabetes. Perhaps after all the old division of mellitus and insipidus would have answered every purpose, more particularly as their treatment is in a great measure analagous; and it is not yet clearly shewn but that they may be all one disease, differing only in degrees of intensity at different stages, and thereby taking upon themselves new characteristics like many other diseases.

In the history of this disease, the author falls into the same error as the Practical Cyclopædian, Dr. J. L. Bardsley, in supposing that Hippocrates knew little or nothing of the disease; indeed Dr. J. L. Bardsley says, "Hippocrutes seems to have been altogether ignorant of this affection;" a round assertion, which we venture to think can only have arisen from carcless reading. The very paragraph quoted by our author disproves the assertion of both essavists. "If the urine is aqueous and more abundant than the fluid taken, it is a sign that the food is not properly assimilated during the whole time this superabundance of urine persists." We would ask the question how much more do moderns know of this disease than what is here expressed? It is true that Hippocrates did not speak of saccharine matter, but this does not prove he knew nothing of the disease, any more than Sydenliam, who is acknowledged to have known the disease well, and who is equally silent on the saceharine principles. The fact may be that it did not exist in the cases falling under the personal inspection of those acute observers: had it been a never absent symptom of the disease, no doubt Hippocrates, as well as Sydenham, would not have failed to have noticed it. It would be equally unjust to challenge the father of medicine with not knowing the disease, because he had not notieed the involuntary discharges of semen (maintained by Bardsley) as a symptom, or the smell of hay in the urine advanced by another (Dr. Latham) in which opinion he stands alone. The simple fact of balancing the ingesta with the egesta, is proof sufficient that Hippocrates, Caelsius, Aurelianus, Demetrius, and Sydenham, if not acquainted with the name of diabetes, were no strangers to its phenomena.

To fully justify our remark on the author's unnecessary complication of the subject, we find on dipping further into the book, four fifths of the whole are taken up with the particulars of one division, viz. diabetes mellitus, the rest being summarily passed over. The symptomatic portion is well deserving perusal, being in truth a multum in purvo. The following extract will afford an example :-

" Diabetes generally commences in a very slow and insidious manner, so much so, that at first its existence can very easily be overlooked. The first symptoms which attract the attention are, a feeling of lassitude, excessive indolenee, dryness of the mouth, with a disagreeable taste, frothy and viseid saliva, reddening litmus paper: all the functions seem to be performed well, except that of sleep, which is frequently disturbed by the necessity of making water. After some time a sense of weight is experienced in the epigastrium, accompanied with heat, pain, and frequently with coldness of the hands and soles of the feet. The skin afterwards becomes arid, harsh to the touch; the hair on the head, and other parts of the body, grows dry, and falls off in large quantities; the month is clammy

which becomes afterwards brown, and occasionally The angles of the lips become inquite black. crusted with dried mucus: the mouth is affected as in scurvy; the guins soft and spungy, bleed from the slightest pressure, and present ulcerations at the bases of the teeth, which loosen and fall out; the appetite progressively increases, and becomes at last quite voracious. Occasionally the patient loathes animal food, and seeks only that of a vegetable nature. Digestion is often laborious, and accompanied with cructations and pyrosis. There is constipation, the forces are dry, and often without odonr. Dr. Latham considers a hay seent, which is exhaled from the whole surface of the body, but chiefly by pulmonary transpiration, as characteristic of diabetes; but this phenomenon has seldom been observed by other writers, and I myself never could facet with it. Sometimes there is prin, at others only a feeling of weakness, in the region of The evacuation of the urine is at the kidneys. times very painful, and excoriations of the prepace with phimosis and redness of the orifice of the urethra, have often been observed. This irritation about the orifice of the urethra is often a source of great annoyance to the patients, especially to females. Anaphrodisia is of most constant occur-Dr. Bardsley has noted in several of his patients involuntary seminal discharges, a phenomenon which has been marked by no other observer. It is not uncommon to remark cephalalgia, dimness of sight, impaired hearing, and at times total blindness. The sleep becomes short, uneasy, la-horious, and disturbed at every moment by a constant want to pass water, and to satisfy the thirst, so distressing to the patient. After a certain time, these symptoms are followed by extreme weakness, lassitude, and considerable emaciation; the pulse at first slow and weak, rises progressively, fever takes place, and returns sometimes at periodical intervals, but most frequently in a very irregular manner. Œdema of the feet and legs follows, and sometimes general anasarca. This condition has even a moral effect; the patient becomes sad and dejected, and in the last stage cerebral symptoms arise, a teoma, delirinm and convulsions, phenomena which are soon terminated by death. two very important phenomena of diabetes, which must delay us a moment, they are thirst and urinary secretions, being in general the two symptoms of the disease which first draw our attention. When diabeten is fully developed, the thirst becomes incessant, in no other affection, polydipsia excepted, is it so intolerable, so inextinguishable; it is in general proportionate to the exerction of urine, the quantity of which may, in some cases, be enormous.

On the last paragraph we would remark that one case has fallen under our notice of perfectly developed diabetes mellitus, where thirst was scarcely ever experienced. In respect to Dr. Bardsley, two or three curious eases where although the egesta were considerably more than the ingesta, yet the individuals increased in weight many pounds, we think the explanation far simpler than that stated by the worthy doctor. There is often more knavery practised in hospital nursing, and with patients themselves, than medical men generally allow for.

We shall pass over the physical and chemical properties of the urine, with remarking, that it is a masterly condensation of opinions; there is nothing however, particularly new, with the exception of urea being present in diabetic urine, a fact now established. On the state of the blood, we find nothing but what has been advanced before. The progress, diagnosis, prognosis, etiology and nature of diabetes, are brief-huz interestingly compiled, and worthy of perusal. This brings us to the treatment of the disease, in which, the author leaves us in the dark, to guess his own opinions, but freely advances the plans of others, and leaves the reader to select for himself which he prefers. In this manner he runs through blood letting, animal diet, opinm, astringents, tonies, warm baths, and lastly, various drugs and chemicals that have been introduced from time to time, as specifies, by various individuals, the author

concluding that the plan of treatment should be changed occasionally, and that a combination of means is safer than any single plan, and more likely to effect the object in view.

In respect to the treatment of diabetes, we are of opinion, that if veracions medical statistics could be obtained, we should soon arrive at better conclusions; but, unfortunately, we only see one side of the question: cures only, are recorded, whilst failures never find their way to the public. Dr. Clay, of Manchester, in his essay read before the Éritish Association on diabetes, endeavoured to direct the attention of the profession to the effects of tine, of sesquiehloride of iron, and he then states that if the existing statistics are of any value respecting diabetes, the tonic or astringent plan, or both combined, have accomplished more eures than any other means.

On diabetes, with fatty matter, or chylons diabetes, our author is very brief. Citing a case or two from older writers, admitting the rarity and obscurity of the disease, he gives the following:-

"The details into which we have just entered, enable us to recognizine diabetes with fatty matter, the principles of diabetes mullitus, only in a less degree; that the urine has the character of being cloudy and lactescent, sometimes spontaneously coagulable, of possessing a specific gravity but little above the natural standard, and of becoming bright when treated by ether, and of furnishing a more or less considerable quantity of fatty matter. Instead of this fatty matter there may be a kind of oil, immiscible with the urine, which then remains pertectly transparent.

The treatment is analagous with mellitus. On diabetes with excess of urea the author is still more brief, and confesses it analogous with mullitus in a milder form, irritability of the bladder being a distinguishing symptom; lastly, aqueous diabetes, another mild form (in our opinion) of the mullitus, is considered by the author as a distinct disease. In plainer terms, if a patient be recovering from diabetes mellitus, his diminished malady must be classitied under a new head, and treated as a distinct species of the disease. Luckily the author's treatment is so allied to those, good for the other forms of the disease, that the different nosology will not seriously interfere with the patient's convalescence. At the conclusion of the book is a most valuable list of authorities on the subject, which will be of great advantage to those who may wish to pursue further enquiries The essay is well calculated as a faithful guide to the opinions of various and numerons writers on the subject, and for those who may have neither time nor opportunity to search, will prove a treasure. The translator is also entitled to credit for the perspienons style, and he appears to have done the author full justice.

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* * The French works above announced, may be had through Dulan and Co., Soho-square.

MEDICAL MEMS. OF THE WEEK.

EXCISION OF THE SPLEEN AS A REMEDY. -Mr. Eagle, of Kingsland-road, gives an article recommending the tying the splenic artery or vein, or the excision of the spleen in various diseases "produced through the medium of unhealthy blood." He cites two cases of rabbits suffering under narasmus, with hydateds; the splenic artery was tied in the one case-the splenic artery and vein in the other. The first nearly doubled its weight within a month from the operation; the second weighed, when operated on, 2lbs. 4oz., and 18 days afterwards, 3lbs. Hoz. Mr. Eagle aftirms the improvement to be owing solely to the tying process. The first rabbit was subsequently killed, and shewed, in common with other rabbits similarly operated on and destroyed, traces apparently of cicatrized tubercles. Mr. Eagle adds his assurance, that "firmly convinced of the omnipotent agency in those carriers of oxygen"-the splcen in the pro-duction of disease-" he will, if allowed, operate on every ease of dangerons scrofnlous or tuberculous eachexy, throw into the jugular vein, as directed by Dr. Blundell, a few onness of blood, alone proceed to take up the splenic artery-a work of two or three minutes, at most!" If e should searcely imitate him.

THE PROVINCIAL MEDICAL ASSOCIATION. -In its spiritless and unmeaning conduct, (says the Lancet); in the fast and loose manner it which it has played with the question of Medical Reform; in its senseless and sickening laudations of imbecile persons; and in the utter absence of that bold and commanding spirit which should characterise such a body; we had really thought-from all these circumstances-that such an association was an object of especial worth in the estimation of our twaddling contemporary - the Provincial Medical Association. But we were deceived, and we are glad of it. We rejoice to find that even that journal, which was published for the published for the purpose of sustaining the rottonest parts of our medical institutions, employs its feeble efforts in condemning the conduct of an association which, really, is little else than a disgrace to the professional body of this country. Anumal meetings, feasting, toasting, guzzling, complimenting, and pulling, form the chief features of that stupidly-managed society.-[The bad grammar is not the only remarkable position of this little paragraph

of our expiring contemporary. Ed.]

18th amed Prostate. When this occurs with abscess in and around it, says Sir Charles Bell, support the constitution by the common means. Soothe the local irritation by washing the passages, by means of the eatheter and syringe, contriving that the stream shall gently sinuses. Be very careful (if the ducts of the prostate be enlarged) that the point of the catheter is not entangled in them, or in the abscess, if it open into the passage. In diseased prostrate Petit and Desault are indifferent to the breaking of the membrane with the catheter. Nay, an idea prevails that it is good to unload the varicose vessels! There cannot be a greater mistake. The abrasion fills the bladder with blood, and lays the foundation of ulcer, feetid discharge, and increased irritation.

REPRODUCTION OF ATMOSPHERIC AIR .-M. Thénard has submitted to the French Academy of Sciences a communication on the means of remaining for a long period in a limited quantity of air, by the absorption of the carbonic acid gas exhaled, and the renewal of oxygen in proportion to its consumption. That the carbonic acid gas exhaled, and which, in excess, becomes fatal, may be absorbed by lime, is a well known fact; but as it is necessary, in the purification of air, to replace the oxygen, which is the vital principle, as well as to get rid of the excess of what is injurious, the great object to be obtained in cases where, as in diving bells, it is important to make the same limited volume of air serve for several hours, is to produce oxygen with ease and certainty. M. Théaard proposes to employ oxygenated water, and has shown that not less than 375 times the volume of water of oxygengas may be compressed in this vehicle, and subsequently liberated as required. But to produce this result great care and and expense are necessary, and, when obtained, the diffienlty of preventing the escape of the oxygen when not wanted for immediate use is also very great.

NASAL HEMORRHAGE. - According to M. Negour this may always be stopped by raising the arm of the same side, as that of the nostril from which the blood flows.

THE USE OF THE MICROSCOPE.- A mieroseopical discovery made during the present year, by Dr. Simon, of Berlin, consists in the detection within the small mass of sebaceons substance which collects in the follicles of the skin, and becomes darkened at its extremity, and to which we give the name comedo, or grub, of an articulated animacule of considerable size.

MEETINGS FOR THE ENSUING WEEK,

Octr. 17, Monday, 19, Wednesday, Westminster Hospital Medical Society, 8 p.m. 20, Thursday, King's College Proputal Society, 8 p.m. 22, Saturday, Mathematical Society, 8 p.m.

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LONDON, SATURDAY, OCTOBER 22, 1812.

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ON THE LAWS OF THE DEVELOPMENT OF ORGANS; OR, TRANSCENDENTAL ANATOMY APPLIED TO PHYSIOLGY.

By E. R. A. SERRES, Member of the Institute, of the Academy of Medicine, Professor to the Museum of Natural History, Paris, &c., &c., &c.

SUMMARY.—Effect of the Microscopic Researches of Lewenhovek and of Hartsnecker.—Idea of the originat enclosure of the germs; Malpighi; his Re-searches upon the Ovum; his ideas upon the Derelopment of the Adipose Tissue, Sc.—Boerhaave; his doubt upon the ideas of the Histologic Homogeny of Ruysch and of Mulpighi,-The Nervous System considered as the generator of all the other tissues; Inconsistencies of the Supporters of the Centrifugal Theory of Developments .- School of Haller .-Physiology Detached from Anatomy as a Distinct Science; Works of the Anatomists of this School in Comparative Organogeny. - Haller at first for the Theory of Epigenesis, and afterwards for that of Pre-Evistences.—The Heart the Primary Generator of the other Organs .- The Theory of Contrifugal Development based upon the Physiology of the Adult .- State of the System of pre-existences as represented by Bonnet and Haller,-Needham attacks the Hypothesis of the Existence of germs; his Experiments upon the Formation of the Infusoria; occult forces admitted by him.-Wolf: unalogy of his occult forces, with those admitted by Needham; opposes the creative action of the Heart; his labours upon the Development of the Sanguiferous system; idea of the successive Formation of Organs - Theory of Organic Evolution established by Haller.

Such, as I represented in my last lecture, are the grand views which have been developed since the commencement of the theory of epigenesis. But unfortunately at the period when science assumed this new course, the system of organic pre-existences sprung up to retard its progress; thus was organogeny arrested in its most important hour by the substitution of an obscure and entirely artificial philosophy for that of nature. The origin of the theory of pre-existence was owing to the abuse of the early microscopic researches of Lewenhöcck and Hartsoeker. Astonished at the results furnished by the microscope, the imagination of physiologists exaggerated still more its power. At first perceiving the entire animal in the ovum, in its last stage of incubation, they then imagined its presence in the ovule before conception; and finally throwing aside the clogs of observation, Swammerdam and Malebranche conceived the pre-existence of germs, and their enclosure, the one within the other, since the commencement of time. This gigantic idea met with a success unequalled by the discoveries of Galileo and of Newton. But how incredible that the whole of the past and future generations should have been enclosed within the ovary of Eve, our common mother; and that however invisible the embryo may be within the ovum, it is not the less an exact repetition of the adult man! Embryogenic researches hence presented but slight interest. For what purpose, said people, waste one's time in labours of so difficult and delicate a nature, if the youngest embryo presents but the miniature of the perfect animal? What can science gain from this study of infinitely minute

nature shews us on a large scale at unother age in man and animals? What answer could be given to arguments apparently so decisive?

This abandonment of embryogeny was still more effectually brought about by the researches of Malpighi with the microscope, while Haller, at one time a partisan of epigenesis, at another of pre-existence, eventually declared himself for the latter system. A remark which I have already made, and which here again presents itself, is, that the primitive principle of organogeny was the indivisi-bility of life, and consequently the unity of its graduation in beings endowed with it. Organized nature was not separated into two kinds, the vegetable and the animal, but was considered as but one, and undivided, although endowed with various degrees of perfection. Malpighi, however, adopted new views, and stood forth like a giant from the host of embryogenists who preceded or have followed him. Commencing the study of organogeny, by the consideration of vegetable life, he applied the knowledge thus gained to the first formation of animals. Taking up animal embryogeny at its primary starting point, he compared its first formations with those of the vegetable kingdom, of which they are but an imitation, and was thus led into a field of discoveries, the full value of which he himself did not appreciate. Before his time, although the existence of the cicatricula had been frequently pointed out in the ovnm, no one had traced in its composition the first outline of the embryo. It was reserved to Malpighi to overcome this task. And with what clearness did he trace the arrangement of the blustodermic membrane! How beautifully did he define the first appearance of the vertebral column, together with that of the nervous system, and also what was still more difficult of discovery, that of the blood-vessels! The ereator of organogeny, as Harvey had been of ovology, he referred these first formations, anterior to the appearance of the heart, to a creating action in the fissnes, which had the power of repeating itself in vegetables and the inferior animals, and which in the superior animals, and man, presides over the molecular life of formation during the whole duration of existence. It is this power, the nature and essence of which are unknown to us, which we so often hear of under the names of plastic force, of nisus formativus, or of organic vital proper-ties. These facts, however, remained unproductive in the mind of Malpighi, prejudiced as he was in favour of the theory of pre-existence. Centrifugal development being one of its maxims, Malpighi laboured to prove that the adipose system becomes propagated from the omentum to the other various parts of the body, that is to say, from the centre towards the circumference. Scarcely, however, had he emitted this general idea, when studying the formation of the adipose vesicles which compose the system, he found them developed from the circumference towards the centre, a fact since de-monstrated by M. Raspail. The difference in importance, as a product, between an adipose vesicle and an ovigenous vesicle of de Graaff, appears immense; but not so in considering the mode of formation. When then Malpighi compares this ovigenous vesicle to a glandular body, when he makes it secrete the ovnles in birds, not only does he make an immense step forward, but he overthrows the idea of the original enclosure of the germs, for it is clear that if the ovules are secreted by the ovigenous vesicle of de Graaff, their pre-existence is illusory. Here then, as everywhere else, the observations adduced in support of the centrifugal theory, went in reality to prove the truth of the centripetal law of development.

waste one's time in labours of so difficult and delicate a nature, if the youngest embryo presents but the miniature of the perfect animal? What can science gain from this study of infinitely minute productions, if such beings are nothing but what

from this abandonment naturally resulted that of the study of the laws of formation and of development. But as a kind of compensation, the system of homogeny then took a new flight. During nearly half a century all the efforts of anatomists were directed towards the discovery of a primitive tissue, of which all organisms were considered to be merely modifications. Hippocrates said that there was but one disease, of which all other maladies were simply modifications. Plato and Aristotle in like manner acknowledged but one animal, whose various metamorphoses produced all other animals. It was to prove the reality of these abstract notions that the anatomical philosophy of that period chiefly applied itself.

The fibrous tissue, the most easily observable in organs, was the first supposed generator of the others; the vascular tissue requiring the greatest difficulty in its preparation, needed the skill of a Ruysch for its demonstration. Lastly, it was reserved for the sagacity of Malpighi, in microscopic observations, to discover the arini, or small glaudalar follicles, in the intinate structure of the organisms. Glandular, fibrous, and vascular homogeny, were, however, never demonstrated, but new views and relations upon the various analogies of tissues and of organs were developed; views which eventually led to the organic homology of Vieq-d'Azir and of Spix, the system of organic tissues of Bichat, and the theory of analogues of Geoffroy Saint Hilaire.

In the midst of the animated discussions accompanying these researches, Boerhaave at first decided in favour of vascular homogeny, which favoured his theories, since so eclebrated, especially that of pathological inflammation. The subsequent discovery by Malpighi of the early appearance of the spinal marrow, induced this acute observer to suppose, like other homogenists, that all parts were originally nervous, and that they all radiated at the commencement from the centre towards the circumference; thus was the hypothesis of centrifugal development, which seemed to have been for some time abandoned, once more revived. this state of things arose the school of Haller, Among these contradictory opinions it became necessary to shape some positive course in the study of organic formations. Unfortunately the influence of Haller was thrown into the wrong scale, On reading attentively the lectures of Boerhaave, and their able commentaries, we readily perceive that the science of organisms had assumed a new direction. Hitherto the use of purts as adopted by Galen had enjoyed but a secondary place in the study of the organic apparatus; this accessory portion suddenly became the essential and fundamental portion, around which all others were centred; physiology, in a word, became separated from anatomy as a distinct science. It became detached, not as a special science limited to man, but as a comparative science, that is to say, that it took man as the term of relation, and all animals as objects of comparison and subjects for experiment. With data apparently so simple, Haller founded a new science, and upon bases so enlarged, that his work has remained unaltered to the present day; it is a perfect encyclopredia of the natural sciences applied to the study of the functions of man. With reference to com-parative organogeny, one of the first acts of this experimental school was to efface from science the chimerical organisms, introduced by centrifugal development. Thus for the purpose of carrying the adipose fluid from the centre towards the circumference, an order of adipose vessels had been invented, in the same way as neurolymphatic vessels had been created for the centrifugal circulation of the vital and animal essences, the existence of which, according to Malebranche, could not be doubted by any one. These vessels were, how-ever, completely rejected, inasmuch as they could not be discovered by dissection nor by experiment.

By aid of this severe reasoning in the interpretation of facts, Haller refuted the theory of organic pre-existences, although previously bred up in this doctrine. He formally declared himself for epigenesis, which appeared to him abundantly evidenced by the observations of William Harvey, of Malpighi, Lancisi, Maitre-Jean, and by the experiments of Réammur and Trembley upon animal regeneration. It was at this period of his scientific life that he laid the foundations of his grand theory of arrest of development.

By what fatality then was Haller drawn into the opposite opinion? What could have passed in his mind to induce him to conceive the entire animal within the ovim? To admit in its developments but an elongation of parts-to see the entire heart in its primitive canal-to refuse the evidence of his senses, when he perceived the auricles and ventricles superadded to this canal, and its muscular tibres appearing where they had not previously existed. How could be, after these facts, consider the embryo a repetition of the perfeet animal? How, by this theory, explain the existence of certain organs in the embryo, and their disappearance in the adults-of the new intestinal canal which, in insects, succeeds the primitive one-of the bronchi which are replaced by the hings—of the Wolflian bodies which precode the genital organs? How explain the re-generation of the head, the tail, the paw, and the reproductive organs, which had been demonstrated by the experiments of Reaumir, of Trembley, and of Mortimer? Not to dwell unnecessarily on these organogenic problems, Haller arrived at the conclusion, against his first sentiments, that epigenesis is impossible—that there is no part of the body of the animal made anteriorly or consecutively to the others; that in fact all parts are formed at the same time. He rejected even, what his predecessors and hunself had before observed, the successiveness of organs. These authors, he pretended, merely wished to say that such parts are visible in the embryo while certain others are not. The whole is, however, pre-cristent in the part. The animal is contained in the embryo, the embryo in the ovum. the ovum in the ovule, and all the ovules were en-closed in the ovaries of the first females. This was the principle at which Haller arrived with respect to the development of organisms. From the moment that he admitted developments to have simply the effect of rendering visible parts which previously were not so-that he reduced formations to an elongation, or a spreading out of the organisms—he created a necessity for imagining an active power enpable of producing these results. Too much of a physiologist to admit an occult power, a visible force became requisite; the heart offered this condition in the factus and the adult; he, therefore, attached his theory to this organ, and supposed its existence and its action at all periods of embryonic life.

From data such as these, the system of pre-existences became the almost general belief of physiologists. Founded on false analogies, centrifugal development became the primordial law of developments, and the formation of the organisms was attributed to the heart. In fine, from this combination of errors, the physiology of the young embry o was put almost on a level with the physiology of the perfect being. Every thing is mutually dependent and interwoven in the sciences of anatony and physiology. The functions necessarily attend the organs; these being declared unchangeable, the functions cannot be allowed to vary. As they are in the adult, so ought they to be in the young embryo, since the embryo is considered but a diminutive adult. Such, then, we will consider them. Now, who can hesitate to acknowledge that in the adult the circulatory movement is contrifugal? Who can doubt, but that in the infant, growth depends on the continuous transport of the sanguineous thuid from the centre towards the circumference? Who does not know that aliments introduced into the intestinal canal are converted into chyle, which from this central point is distributed to all the organisms? Who does not know. that to bring intra-nterine on a level with extrauterine physiology, a many embryogenists have advanced that the focus is nonrished by the waters of the amnios? Lastly, who will deny that the

nervous action has its centre in the cerebro-spinal axis, and that it radiates from this central point to the periphery of the nervous system? These are common but no less positive notions. Are they however, applicable to the young embryo and to organisms in the course of formation? This is the key of the question. The advocates of preexistence assert the affirmative; but all embryogenic facts and observations lead us to the opposite conclusion. It is then, in these facts and in their rigorous interpretation that the theory of epigenesis finds its support; here it is that it is positively assured of victory.

Such was the system of pre-existences supported by Bonnet and Haller. This system seemed to be based upon two grand hypotheses. The one, in some measure borrowed from Leibnitz, was relative to the germs; it supposed these miniatures of vegetable and of annual bodies floating in space, circulating quietly in the various organized bodies until meeting with the mould in which they are to become developed; thus commenced the abandonment of the indefinite enclosure of these bodies. The second hypothesis related to embryogeny; the heart and its impulsive action replaced all the occalt forces of the ancient physiologists, and the presence of this organ was imagined at all periods of animality. Of these two hypotheses, the first, entirely metaphysical, exercised but little influence over the subsequent course of anatomy; the second, which was perfectly physiological, became, on the contrary, the basis around which animal embryogeny was constructed. Plants, being destitute of a heart, were consequently rejected from the law of centrifugal development, vegetable organogeny was separated from that of the animal kingdom, and a distinction was formed of a complete a nature, that its traces are not yet effaced. In after times the rapid progress of zoology bringing to light a multitude of animals devoid of a heart, these beings, which are classed under the name zoophytes, were reputed to be developed without a known cause. The centrifugal law was thus limited to vertebrated animals, or to those of the invertebrata provided with a heart. It thus ceased to be a general law, and in fact lost all application, since, in their primitive state, the embryos of the vertebrata are Zoophytes.

This insufficiency of the theory of pre existences and of the centrifugal law, led towards epigenesis two celebrated contemporaries of Haller, Need-ham and Wolf. The first attacked the hypothesis of pre-existences; the second the theory of cardiac centrifugal development; and both of these suppositions would from that time have disappeared from science, had not these two anatomists combined with their sound reasoning on facts, those occult principles of development which led them astray. After exposing the fallacy of the preformation of germs. Needham made public beautiful experiments upon the formation of the infusoria. He traced the development of the monult, of the ribriona, and of the corticella in various vegetable infusions, and to avoid the objection that these germs floating in space might fall into the infusions, and be there developed, he repeated his experiments in closed vessels, without communication with the sir, and in infusions from which all air had been expelled by strong challition. results were the same in both experiments: the infusoria shewed themselves in the last as in the first. Now, do we not here behold, asks Needham, the image of the primitive creation of organized beings? Does not this present us an explanation of the invetery of generation? Without being acquainted with the ideas of Harvey upon the transformation of beings, he observed that, among the infesoria, come were arrested at a primary development, others at a secondary degree, while some, again, reached a ternary stage—so that their animality seemed to become more perfect at each development. From these experiments, Needham concluded, first, that animals are developed by epigenesis, and that that which we denominate a geria, far from representing on a minute scale the perfect animal, does not even contain its first outline; secondly, that there is a complete progression in developments, the organ in the primitive

stances, considered in their original state, are identical in nature; so that, be adds, under the influence of certain conditions, animals become vegetables, and vegetables animals.

What a pity that such elevated notions should have been disfigured by suppositions the most unintelligible! According to Needham, the whole progress of development depends on an all-powerful expansive force, and on a power of or istance destined to counter-balance the effects of the expansive force; and it is by a continuous and alternate balancing of these two forces, that animal and vegetable formations are guided. Such were the unintelligible notions of Needham. These ideas have lately been revived by M. Oken, with this difference—that he substitutes electro-riagnetic attraction and regulation, in the place of the expansive and repulsive forces. These obscure notions, in like manner, pervade the otherwise grand researches of Wolf. Nowhere do we find a grand researches of Wolf. Nowhere do we find a more powerful advocate of epigenesis than this illustrious anatomist; no one would have contributed, more than him, to place it on its true bases, had be confined himself to the strict interpretation of facts; but, after demonstrating the insufficiency of the powers of expansion and of resistance, as advocated by Needham, he, in his turn, imagined an essential force and a solidescence, which appear to be but a copy of the former. The confusion of the Wolfian theory of generation is evidently owing to the constant admixture of facts with principles not depending, or even totally disagreeing, one with another. But on analyzing these facts, we find that the development of vegetables takes place by a successive interposition of vesicles, which become deposited in the interstices of what Wolf denominates the cellular tissue, and that the formation of new layers is the result of this vesi cular addition. Passing from vegetables to animals, we see that the primitive state of animality is constituted by globules; so that on tracing, for instance, the umbilical region of the chicken, we at first find but small globular bodies, which, uniting together, form lines, and then red points, which Wolf denominates iles sanguines; lastly, these points become covered with vessels before the appearance of the heart. Continuing his researches with respect to the formation of this latter organ, Wolf ascertained, on the one hand, the lateness of its appearance; and on the other hand, that when it does appear it seems to be quite immoveable. When, shortly afterwards, its movements commence, they are at first so feeble that the globule of blood oscillates, as if under the action of a peristaltic movement.--To sustain the now tottering theory of centrifugal development. Haller conceived that the parts previously existed, although invisible, and that theheart acted powerfully, although its presence could not be ascertained.

Thus did Wolf overthrow the theory of the centrifugal action of the heart, while Needham had, in like manner, disproved that of the preexistence of germs. There still remained the spontaneous or successive development of parts, whereby epigenesis was equally distinguished from the system of pre-formations. Wolf rendered to science this new service; he shewed that the parts arise one after another, and even that they proceed one from another by way of sceretion; he made especially this profound observation. already indicated by Needham, viz. that primitively all parts of the animal are fluid, and, as it were, inorganic, and that afterwards the ve sels become developed within them by an action peculiar and in some measure inherent to their tissue. Haller, however, refused to admit these conclusions. Steadfastly following up the researches of Malpighi, he had been compelled to abandon the original notions of Bonnet. He had become convinced of the fallacy of attributing development to a simple inerease. Struck with the ebservations of Needham and of Wolf, and seeing under the microscope. sometimes even with the naked eye, the organs change in form and position while passing from one state to another, he expressed these metamorpho es by the name of crodutions. The theory of organic evolutions is a formal protestation against state of animality imulating a species of crystal-lization; thirdly, that animal and vegetable sub-the embryo is no longer an exact miniature of the perfect animal; it passes through states different to its original one: in a word, it changes. Still there is a difference between this and epigenesis, In fact, as his observations were not commenced until the first formations were not accomplished, Haller was enabled to reconcile with the theory of evolutions his favourite idea of centrifugal development by the creative action of the heart; for, as I have just said, in the theory of evolutions, our researches are only commenced when the first formations are accomplished, we have merely to follow organs already formed through the course of their various transformations. In that of epigenesis, on the contraray, our views are more extended; our object is to unveil even the formation of organs. The domain of the one commences where the other finishes; epigenesis is accomplished when evolution begins.

PERISCOPE OF THE WEEK.

Being Extracts and Condentation, from the Foreign and Home Violand Journals.

GENTRAL ILL HEALTH, The disordered state of health, for treating which Mr. Abernethy gained such a reputation, is, says Dr. C. J. B. Williams, one of the commonest ailments we have to prescribe for: some call it, with Abernethy, "all stomach;" others, "liver;" others, "disordered constitution;" others, "indigestion;"-but however differently they may name it, few refuse to treat it, as Abernethy did, by regulated diet, blue pill, and mild saline aperient, repeatedly administered. Now the pathologist analyses the symptoms of such a state, and in the white or yellowish-furred tongue, morbid eructations, tender epigastrium, sometimes full right hypochondrium, with extended dulness on percussion, the discoloured faces, the high-coloured and turbid urine, he finds proof of congestion and disturbed secretion of the liver and upper part of the alimentary canal; and he recognises in the remedies employed means which, by increasing the secretions, relieve the congestion; and if these fail, he can suggest other measures which he knows to be efficacious in removing congestion and restoring the natural secretions.

ABSORPTION OF STOMACH.-Mr. Heron, of Lucan, mentions a sea-gull, accustomed to shew most voracious appetite, which, after being fed for a week on bullock's liver, declined eating or drinking, and died on the twenty-seventh day after being confined to the liver. On opening the hird, there were found neither stomach nor intestines; but in their place a light tissue of cellular membrane, with a little glairy vellowish fluid. We are offered no explanation of this extraordinary result, except the incidentally mentioned fact, that the bird would swallow rats and mice whole, &c.

ENCYSTED ABSCESS OF THE BRAIN. -Dr Browne, of Newbury, favours us with a singular case. The patient was a young female. The symptoms during life were, scrofolous aspect, pain over the frontal region, intense vomiting, of a pendiarly colored fluid: pulse seldom above 90, with heat of skin. After many days in this state, during which, the doctor considered her to have gone through the stages of common gastric fever, the pain in the head changed to the occiput, her stomach ceased to retain food when she reposed on her left side, heetic set up, followed by purulent expectoration, and death at the end of a seventy days illness. Though there was no delirium during life, convulsions, nor paralysis, nor car ache, the post-morten examination showed an encysted abscess as large as a walnut, filled with pus of a cerafidous appearance, in the left lobe of the cerebellum. The lungs were full of Tubereles.

OPERATIONS IN THE PARISIAN HOSPI-TALS .- M. Malgaigne, inquiring which are the shot wound of the middle of the thigh to fatal termination to chronic diseases of the chest.

most serious amputations—those performed on account of disease, which he calls pathological, or on account of injuries, which he terms tranmatic, finds that of 789 amoutations there had heen 524 pathological, and 193 deaths, that is to say, 38 in 100; and 265 tranmatic, with 130 deaths, or 19 in 100. He then divides them into greater and less amputations, the mortality in the former being 48 in 100 of the pathological, and 6t in 100 of the traumatic; in the latter 12 in 100 of the pathological, and 15 in 100 of the traumatic. - M. Malgaigne has only been able to obtain the documents of 26 amputations in the thigh; of these 16 were primary and 10 secondary: of the former 12 died, of the latter 6; and 43 amoutations in the leg, of which 33 were immediate and 22 died, 10 were secondary with 7 deaths: but from these few cases M. Malgaigne would draw no conclusions. -With regard to sex, the results are: great pathological amputations; men 280, deaths 138; women 98, deaths 44. Smaller amputations; men 106, deaths 9; women 40, deaths Great tranmatic amputations; men 165, deaths 107; women 17, deaths 10. Small tranmatic amputations; men 73, deaths 13; women 10, deaths 0. On the whole women recover better from amputations than men.-Age exercises a remarkable influence on the mortality. In great pathological amputations from 2 to 5 years, 1-2 deaths; from 5 to 15, 57-15 deaths; from 15 to 20, 66-28 deaths; from 25 to 35, 128-63 deaths; from 35 to 50, 72 - 40 deaths; from 50 to 65, 40-29 deaths; from 65 to 80, 11-5 deaths. In small pathological amputations from 5 to 15 years, 16 0 death; from 15 to 20, 27-1 death; from 20 to 35, 49-3 deaths; from 35 to 50, 33-5 deaths; from 50 to 65, 17-1 death; from 65 to 80, 4-1 death. In great traumatic amputations from 2 years to 5, 1-1 death; from 5 to 15. 9-7 deaths; from 15 to 20, 15-8 deaths; from 20 to 35, 65-39 deaths; from 35 to 50, 54-36 deaths; from 50 to 65, 30-21 deaths; from 65 to 85, 8-5 deaths. Small tranmatic amputations from 5 to 15, 5-0 death; from 15 to 20, (2-1 death; from 20 to 35, 30-0 death; from 35 to 50, 28-8 deaths; from 50 to 65, 11—3 deaths; from 65 to 85, 3-1 death.—With regard to different seasons, M. Malgaigne finds that of 391 cases, 26 amputations took place in January-11 deaths; in February 24 12 deaths; in March 37-20 deaths; in April 28-11 deaths; in May 49-27 deaths; in June 46-27 deaths; in July 27-9 deaths; in August 45-21 deaths; in September 31-18 deaths; in October 32-15 deaths; in November 20-11 deaths; in December 26-9 deaths. So that in the four winter months, usually considered the most unfavourable, the mortality did not average one half, whereas in the months usually preferred, it exceeded, that limit. The antunin is the most unfavourable, next to it the spring; and the result is the same whatever be the nature of the amputation. Nevertheless, winter appears as fatal to young subjects as it is propitious to the more advanced. M. Malgaign next considers the relative mortality in the different Parisian hospitals, placing the Hotel Dieu sixth, and La Charite second in rank of success. In the most fortu nate hospitals for pathological amputations, I death occurred in 5; and the least fortunate 9 in 10. In the most fortunate for traumatic amputations 3 deaths occurred in 10; in the least fortunate all the patients, who had been operated on died. M. Malgaigne does not pretend to explain this difference, but says it does not depend on the operator, as he does not earry his success from one hospital to another. All surgeons have considered a gun ence of which is frequently the first cause of the

imperiously demand amputation; but M. Malgaigne considers this operation so dangerous, that he would prefer to leave the patient to the efforts of nature.

GENTIO-URINARY ORGANS, - Civiale conduets his post-mortem examination of these as follows. Incisions on each side of the body are carried from the external margins of the abdominal ring, so as to meet each other at the posterior portion of the amis, and the pubes and ischinm are divided in the same direction. The kidneys are detached without dividing the ureters, and, having made an incision through the intestine at the sacrum, the contents of the pelvis are easily removed. Having placed the parts upon a table, the portion of the pubes and ischinm which have been sawn through are removed, so as to expose the anterior part of the bladder, the upper surface of the prostate, and the deep pertion of the methra. A cathether is introduced, and, having punctured the bladder at its fundus, an incision is extended through its body and neck, and the membranous portion of the urethra, to the root of the corpus eavernosum. The lateral and lower parts of the urethra are left undivided, for it is here that the chief alterations are found, care being always taken at once to examine the orifices of the seminal canals. In many of the examinations which Civiale has made of persons who have died after retention, or other affection of the urinary organs, he has found great dilatation of these orifices, and large quantities of pus have issued upon pressure of the vesicular seminales. The changes in the vesicular are those usually found as the result of inflammation, leading to disorganisation; it terminates sometimes by suppuration, but usually by induration, or even ossification.

A SHEEP'S Tooth IN A CHILD'S SOCKET .--In 1841, Mr. Twiss, of Kerry, extracted a broken front tooth from a young lady, aged twelve years, and put in its place the front tooth of a yearling sheep, recking from the jaw, having shortened its root a quarter of an inch. After the first week, the tooth at first being much too small for the space, it became more and more firm, and has enlarged, but not so much as it would have done in its pristine state; a circumstance observed in transplanted trees. Mr. Twiss selected the sheep from the extreme cleanliness of that animal, and the beauty and aptitude of the teeth, at two or three years old, when about the size of adult human teeth, and more likely to grow when transplanted. The root may be shortened or pared to fit and keep in situ by waxed silk liga-

EMPLOYMENT OF BELLADONNAIN PHTHYSIS. Dr. Delhaye has derived much advantage in practice, from the employment of belladonna in the carly stages of pulmonary tubercular plithsis, and against those prolonged nervous coughs which are the precursors of consumption. He administers the powdered root of this plant in fractional doses of from 25 to 50 millegrammes, in the course of twenty-four hours. In the case of irritability of the stomach, he prefers the extract or fincture of belladonna; the first of these two substances is prescribed in the same dose as the powder; the second, in doses of 20 to 30 drops. According to Dr. Delhaye, this fineture is also one of the best palhatives to which we can have recomse, to moderate the colliquative diarchesa which so often cuts short the life of phthisical subjects. He considers it indispensable to the success of this treatment, that it should be adopted only when the stomach is healthy, and, according to him, gastro-enteritis is a formal contra-indication to its employment, the existCLINICAL LECTURE DELIVERED BY to you, as there is nothing I can do, that I will and thereby incur an additional expense in your MR. GUIIIBIE, AT THE WESTMINSTER HOSPITAL, SATURDAY, OCT. 15TH.

Gentlemen,-I desired last Saturday that notice might be posted up in the hall, of my intention to give an introductory this day to my lectures, having refused to permit my name to be placed in the list of clinical lectures for this season, because I do not choose to promise that which I may not perform. I read in the Lancet, early in the present year, some incidental observations on this subject, from some one purporting to be a student: my month was immediately closed, not one word have you heard from me since. I have, however, now reason to believe that the gentleman who wrote these remarks, is not a student, and I do not think it right to punish the innocent for the guilty. I shall, therefore, notice some of these excellent cases, and bring the individual subjects of them before you, which, during the first six months of this year, brought me almost without one exception every day to the hospital; and I shall be happy to think that even one half of you paid them only half the attention they received from me. It appears to me that some gentlemen wish to run down this hospital, both as relates to the relief the poor receive, and the instruction which students may obtain at it, by inveighing strongly against the management which does, and does not take place within its walls. I regret very unich that many of the assertions of mismanagement, are, in all probability true as relates to the medical arrangements, many of which, are not in my opinion titting for a public hospital in London. They are, however, all of them good, and well adapted for a parish infirmary; but, as long as it may be thought right to continue them here, the hospital must remain in a depreciated state, both as a place of refuge for the sick poor, and as a school of instruction.

When things become so bad that any chan must be for the better, we may hope for improve ment, and I care not how soon this takes place, for I confess, I shall took forward with the hope that this hospital will then rise from its remains, and assume that character, and obtain that reputation. it never can have under existing circumstances. have done my endeavour to remove the abuses and grievances of which I am sensible; but I ablior all disputes and squabbling, more particularly v.hen they become personal, and I have no wish to contend with gentlemen whom I personally respect, although 'I believe them to be in error; and even if I thought right to do so, I have not the time to spare which the forms of the hospital require.

With respect to you as students, I have not recommended one to come here. I have not invited you in any way, you have come because it suited your own views, and being here, I am at all times happy to give you every information in my power. My days of attendance are Tuesdays and Saturdays, according to the rules of the hospital. You will see it painted up in the hall that I also attend on Thursdays, believing that every physician and · mrgeon should see his particular case three days a week, and when I have any one in danger I visit them every day. You need never expect me before a quarter past one, and never wait for me after a quarter just two, before which time the a istant argeon will go round with you, if I should be absent, and whenever he does the duty of one of the surgious, he ought to receive a regulated proportion of the money which the seniors derive from the fees you pay for permission to attend,

I am never so contented a when you make yourselves constantly known to me, by obeying my injunction; so frequently repeated, of walking up to me, and repeating your names in my face; I do not desire one word more. When you wish any thing from me, you have only to a kit; wheneyou desire to have a clinical lecture on any subject, you have only to show that you have yourselves attended to it, by presenting your own notes of the ease, or eases, on which you wish to have my opinion, and your request will always be granted. You have only to conduct yourselves with order, not do to serve you; but as to obtaining anything from me by any other line of conduct, it is not to be done. I have never perceived the slightest mark of personal disrespect to myself on any occasion, and I believe it is the last thing any one of you would think of offering, and as to what idle persons may write in your name, we will not in future give it any consideration. I shall indge of you, by what you say and do here, and I will think the better of any young man who comes up to me boldly, but respectfully, to state his wishes or his grievances, even if the complaint should be against myself. With respect to the office I hold here, I value it very little as relates to money, There are two or three of the influential governors, who know it is at their service whenever they please to ask it, and, in fact, I only keep it because I hope the day is not very distant when I may be able to make my resignation more useful to the profession and to the public than it would be at the present time. I think it exceedingly unfair to the younger men, who are hanging on or about every hospital, that they should have no hope of the opportunity of distinguishing themselves, except by the death of perhaps their best friend.

The Governors of the Ophthalmic Hospital at once assented to my proposition that every surgeon should retire when sixty years old, and I shall retire when I attain that age, although, perhaps, that institution is indebted to my constant care and superintendence for its existence. I proposed to the Governors of this hospital that every physician and surgeon should retire at sixty-five rears of age, and they were pleased to make it a law for all such persons who may in future beelected. They spared the present ones very much against my wishes, and have perpetuated an evil for some twenty, or perhaps thirty years, which I hope myself and my colleagues will have the virtue to remove. When I had the honor of being elected a member of the Council of the College of Surgeons, I found regulations existing which had been made many years, requiring an apprenticeship, or studentship, for six years, one only of which was required to be spent in studying surgery in a London hospital, for which year the same sum was paid, you pay now, the age for examination being 22. This I considered with others a great error, and we applied ourselves so stendily for its removal, that we have at last succeeded in reducing the time of study to four years, the age to 21. If the young candidate for the medical profession remains at school until he is seventeen, he will in all probability have profited considerably by its ordinary instruction, and have gained sufficient preliminary information to qualify him to pass through life without remark, if not with much credit, and I hope the fortheoming act of Parlinment will enable us to seeme such preliminary education, for I regret to say that among those students who entered the profession some years back, and are only now presenting themselves for examination under the Regulations of 1835, there are many who cannot spell very common words in their native language. If the first year of the professional education of a student were passed in the apoth-cary's shop of an hospital, or that of a practitioner visiting the sick wards occasionally, he would acquire a sufficient knowledge of the making up of medicine, and of the articles themselves, and something of other things that would smooth his path, and remove many difficulties which he would otherwise experience by going at once to lectures in an hospital. When we augmented the course of surgical andy from one year to three, we took care you should pay no more than was expected from you thirty years ago, and the whole amount of fees for hospital attendance, including the practice of the physician, as well as of the surgeon, and all the lectures you are required to attend does not exceed at this hospital. eventy pounds, and is very little, if anything, histor at any other. You could scarcely learn to black shoes in a fashionable nrunner - certainly not to make them --for less money. We did more--we considered that if we caused your friends to keep you at school until you were seventeen, instead of sending you into a shop to open the door, and perregularity, and with strict attention to what I say form other menial offices, at fourteen or lifteen, whilst the sons of the greatest men in this country

education, we might with propriety save them the expense they would incur in your support the last year to 22, and we made the period of examination 21, instead of 22. We also removed the great grievance of which so much was made, of confining instruction to the London schools, and we enabled a student, who might live in a provincial town which had an hospital and school, competent for the purposes of instruction, to pursue his studies at home, and therefore at little or no expence. I always thought that we, who succeeded in effecting these things, had done the profession some service, and I have been surprised lately to see myself accused of doing exactly the reverse. It is true, I have not thought it necessary, to enter into explanations on these points. I have I fear, in fact, hid my light under a bushel. I have now ventured to state the fact, and I trust that those who had previously been misinformed, will not feel offended at my correcting these accidental misrepresentations; I will even beg of them to try me in future by a different rule, and whenever anything is done in which I may be supposed to have had a part, in which public justice, or the best interests of the public do not appear to be sufficiently consulted, and that priate interests have been preferred, to believe that the transaction has not had my support. I am aware that in causing you to attend an hospital, and to study anatomy for three years, it may be said, that a horse may be brought to the water, but that he cannot be made to drink; which I do not dispute. I have, however, seen some thousands of horses taken to water, and have always seen them drink, unless they had lately drank before; and I am of opinion, that if a young man attends an hospital regularly, he is much more likely to learn than if he should not attend at all. The proof of such attendance is derived from the reports and certificates of the teachers, and if the regulations on these subjects had been duly complied with, that proof would have been complete. The surgeons and teachers of the large hospitals declined to comply, and the college gave way. I need not tell you the regret 1 felf on the occasion, and I may add, that there is no abuse so great in the profession as the manner in which gentlemen grant certificates; sometimes even of an attendance which has never taken place, and for persons not actually in the country, all I am willing to hope out of pure negligence; but the subject is too painful to comment upon, and my only consolation on this point is derived from the belief, that these irregularities will, in the course of the ensuing year, be effectually corrected.

With regard to the lectures you are ordered to attend, I am of opinion that every student should be a perpetual pupil to all; but I would not advise a regular attendance on more than one course of each, in order that the student may learn the history of the art and science he is afterwards to acquire a knowledge of by his own labours, under the observation and with the assistance of his teachers. On the study of anatomy I have much to say, but I have only time to point out to you, and to exhort you to avoid the error of learning anatomy in one place, and physic and surgery in another. Nothing can be more absurd than the peripatetic mode so frequently adopted, of walking from one end of this great town to the other to study anatomy, and back again to learn physic. They should both be taught at the same place, so that all the teachers may act together for the good of the student and the public, and where this is not done us it ought to be, I would recommend you not to attend.

I have heard it said that it is beneath the dignity of an hospital surgeon, or teacher, to ascertain whether his students are present or not, and that it is equally derogatory to the character of a student to have a watch set upon his attendance, to which I have always replied that the Regins Professors of Divinity, and others of equal rank, in the Universities of Oxford and Cambridge, do not think it imbecoming in them to ascertain that their students attend regularly, and that the hospital surgeons and teachers may do with great propriety what such men as these have done; and are regularly marked off every morning, as they go to-chapel in their respective colleges and the defaulters noted, medical students of the same age may and ought to submit to the same ordeal,

which is purely for their advantage.

The inattention shown by many professors with respect to the attendance of their students renders another functionary necessary, who is called a grinder. As the time approaches for the final examination of the student at the College of Surgeons for the diploma, he becomes then sensible of the folly of his conduct in not attending to his studies; and he seeks a gentleman, who shall stuff as much information into him in a few weeks as may answer his momentary purpose. Thus crammed, as the term is, he fixes his day to go off, perfectly satisfied that he would forget all he had learned from his grinder in a month, if the grinding were not daily sustained. Under these circumstance young men have frequently assured me they could describe a part or a disease they had not seen just as well as one they had. I have myself heard a student describe very well, the biceps flexor cubiti muscle, and not know it when shown to him. Anatomy is only to be learned by dissection; disease by attendance at the bed-side of the sick in an hospital. There is then to be acquired that confidence in your own knowledge which will enable you to manage and subdue a complaint without assistance from your teacher, and which confidence is only to be acquired by experience and observation—your whole life, in fact, must be one of continued study, and you will at last die having much to learn.

PRIVATE COURSE OF OPERATIVE SUR-GERY.

By J. NOTTINGHAM, Usq., Member of the Royal College of Surgeons of London,

LECTURE II.

GENTLEMEN,—The difficulty we have in tracing the precise limits of what is called operative surgery, declares at once the inconvenience, not to say the unscientific character, or absurdity of those divisions and subdivisions of the healing art, which frequently cause students to lose sight of the real affinities of its different branches, by attending to its arbitrary and apparent distinctions.

The expressions, surgery and surgical pathology, are, now-a days, often received as synonymous—while operative surgery, in which the hand of course is supposed to be engaged, does not generally include all those manual interferences, or operations which truly belong to the chirmgical part of therapeutics; for instance, the systematic works on this department of art frequently exclude all that relates to the application of bandages, or to the reduction of fractures and dislocations, a characteristic belonging more especially to the French treatises on this subject.

Some of the German writers have employed the name "Akieugie," for operative surgery; "Akis, the needle, a point, &c., Ergon, work." while they have restricted the term Akologie to that which relates especially to surgical in-

struments.

The terms employed by the French are so much like our own, that we need not at present direct your attention to them; but here, and once for all, let us remark, that in this course of lectures, we intend to care less about words than about things, neither shall we feel ourselves bound to the repetition or adoption of such terms as akicugie, staphyloraphy, keratonyxis, scleroticonyxis, &e. &e., when any eommon English expression can be implied and at the same time convey an equally clear idea of what we mean; for no language can be regarded as pleasing which has not more or less the aspect of simplicity, and as we have a rich and beautiful tongue of our own, let us endeavour by the combination of its ordinary and intelligible elements, to make ourselves easily understood.

It is not perhaps a matter of very great importance which of the classifications of surgical operations we adopt, for scarcely any two surgical writers have agreed upon the peculiar execllence of any one method of treating this subject; we would recommend students to look at the systems adopted by Sabatier, Velpeau, and other French writers; and at those of Schreger, Zang, Grossheim, Blasius, and Biakowski, in Germany. Hitherto in England operative surgery has scarcely received that distinct consideration, which it has long had in the French schools. Hence the scarcity of systematic works on operative surgery which treat the subject in the manner of Velpeau, and others.

In some of the English works on descriptive and surgical anatomy, very valuable directions will be found, for the performance of many original operations, where a nice knowledge of the structure and relation of parts is required; this observation applies more especially to the operations for stone and hernia, and for the ligature of the arterial trunks, and the valuable writings and lectures of Key, Cooper, Lawrence, Liston, Quain, Harrison, and many others, will not be forgotten, while their value is duly appreciated.

INDICATIONS AND CONTRA-INDICATIONS.

If a patient suffer from a disease incapable of being relieved or cured by other means, and he be willing to allow of an attempt to cure it hy surgical operation, more especially if he really desire that such operation should be performed without delay, and feel determined to rid himself of his complaint at any hazard; then would such operation seem to be indicated, provided that no accidental circumstance connected with age, or with bodily or mental condition present itself as a contra-indication, and oppose its execution. Circumstances, however, of this nature are numerous, and are every day met with by the surgical practititioner. Amongst them may be numbered the following :-

1. Peculiarity of age, as under 6 months, or more than 70 years of age.

2. Extreme weakness.

3. Great and unaccountable fear of the operation; especially of entting instruments, or the fact of the patient having suffered in an extreme degree from minor operations previously performed.

4. Extreme irritability, such as to cause a fear of convulsions, extraordinary pain, or high

fever

5. The removal of large portions of the body, especially when this occurs suddenly.

6. The presence of diseases, such as serofula, the venereal disease, or gout in an active

7. The fact of the disease to be operated upon having occurred from an apparently trifling eause, or its being developed in a manner, the nature of which is not apparent, but associated with some internal or constitutional change.

8. When the disease to be operated on is not purely local, or appears on some part of the body distant from that where its cause might have been expected to take effect; or when a similar disease prevails in different and distant parts of the body.

9. The long continuance of some general disease, which has caused the local complaint we have to operate on.

10. It is not desirable to operate on a patient who has lately undergone a course of mercurial treatment.

Lastly. Without further multiplication of such cantions, this concise one may be of use, viz., that the surgeon before he commences his operation, should ask himself whether he be

about to do as he would be done by, i.e. whether on his own person, he would desire the operation under similar circumstances?

We cannot attach too much importance to the value of these contra-indications, in a general way, although eases of exception now and then occur, where prudence dictates an operation, although some of them may be present. An instance occurred to me about fifteen months ago, where in spite of the first contraindication, or that of extreme age, it was thought proper, after due consideration, to amputate the fore-arm of a man upwards of eighty, who suffered extremely from disease of the left metacarpus. Every precaution was taken to prevent the aged patient suffering from great loss of blood, and the fore-arm was quickly removed, a narrow eatlin being first passed through it before, afterwards behind the bones, and an anterior and posterior flap thus made; the case did extremely well, perfeet union of the flaps having taken place in about a week. This venerable man was formerly in the navy, and was at the taking of a richly-laden Spanish galleon, about half a century ago, and he occupied himself during our amoutation, by talking of the great prize he had assisted to capture. I saw him this morning, when he said that for some months after the operation he found his health improved, and accounted for this by his having got rid of the diseased hand.

The effects of impressions produced by great fear of cutting instruments, are sometimes sufficient to cause great apprehension,—and I well remember, at this moment, the horror depicted on the countenance of a young man of about 27, a patient of Dupuytren in the Hotel Dieu, who on the 30th November 1832, was brought into the amphitheatre, to have a large fatty tumour removed from the back of his neck. After a few minutes he allowed the operation to be performed, in which there was

no particular difficulty.

The died on the third or fourth day after the operation, a post-mortem examination of the body was made, but no organic change was found which could be regarded as the cause of the fatal termination, and Dupuytren attributed it entirely to the great impression made upon this poor man by the fear of the operation.

While some patients evince the greatest possible fear of the approach of a surgical operation, there are others, who with an uncalled for bravado, pretend to treat it as if they could bear the torture it may occasion without be-

traying any emotion.

Both classes of patients must be carefully dealt with; the former are to be enconraged, and made to understand, that the value of the operation consists in this, that it is the most certain means which can be devised of removing, or mitigating the inconveniences or pains from which they have hitherto suffered; and if they greatly exaggerate its dangers, we must endeavour to disabuse them on this point.

The latter class, or those who might be suspected of displaying an artificial, or what might be called a morbid courage, must also be cautioned; they must be convinced of the importance to be attached to the part which they are called upon to act, and which they seem to approach with so little reflection. Let them understand that affected courage, does not take the place of real courage, and that it is dangerous to repress the expression of suffering, as it is useless to exaggerate it or utter it without motive, and that by doing so we violate the dictates of nature, which seem to be that we should always give utterance to the sufferings which our organs undergo, and that freely and without constraint.

It has been remarked by surgeons of great

this subject, that operations performed upon patients, pretending to, or rather displaying, an unusual calm and resignation, very often turn out unfavourably, and that generally speaking such an apparent state of feeling is to be regarded as a bad omen.

Occasionally in public hospitals we meet with those who appear to have a notion that they must be operated upon, whether they approve of it or no, -and the poor who suffer from diseases which come within the surgeons department, not unfrequently make this the source of an objection to enter a public establishment. It is of some consequence that such errors should be corrected by gentle treatment and persuasion, for by adhering always to truth there is no doubt but we shall be successful in cradicating them.

ON THE EMPLOYMENT OF THE KNIFE. The surgeon should choose, hold, and direct this instrument, so as to suit the particular operation he has to perform.

Perhaps the choice of the scalpel, knife, or bistoury, is searcely made with that care which is desirable; that this instrument may be exactly snited to the incisions about to be made with it, the surgeon's set of knives should be complete, and contain a regularly advancing series of blades, from the delicate little instruments, found in cases for operations on the eye, to the longest cathin employed in amputation at the hip-joint. To have such a complete set of knives, is found very convenient in the practice of amputations, as corresponding limbs vary so much in size in differents patients. If the set of knives be complete, the surgeon can scarcely fail to hit upon one well suited to his ease, while it is exceedingly awkward to be obliged to amputate a limb, or remove a breast, with a knife too long or too short.

Before we proceed to speak of the manner of holding the bistoury, let us remark that it is not customary to treat especially of surgical instruments, in works, or lectures on operative surgery; nevertheless the student ought to familiarize himself, with the many varied and curious productions to which the name surgical instrument has been attached; such observation and study, if it may be called so, will have the effect of convincing the observer of the uselessness of a great many of them, and of shewing the advantages to be derived from the employment of those which are the least complicated.

"The simplicity of an operation is the measure of its perfection," was a remark of the celebrated Desault, and its truth is so obvious that surgeons have ever since been pleased to quote it. Some surgeons, and surgical writers, have had a peculiar fondness for numerous instruments, and complicated operations, which only tended to display a host of difficulties, of their own creating, which their own ingenuity could surmount. However, the day for these things has gone by; medicines, and surgical instruments, are fewer in number, many surgieal books are shortened, operations are less complicated, but more complete and successful; indeed, the mystery and bombast of the early fathers of the art can now be dispensed with, for surgery is becoming a very commonsense sort of business, and young men need not serve an apprenticeship of seven years to learn how to keep secrets, as was common in days of yore,

MANNER OF HOLDING THE KNIFE.

In the teaching of dancing and fencing, we hear first of the positions of the feet and body, in operative surgery the positions of the knife are first introduced to our notice, and of these

experience, and Velpeau has well observed on be held like a table-knife, in the manner of a pen, or like the bow of a fiddle; these positions, however, are capable of certain modifications which we will now attend to.

FIRST POSITION.

Bistoury held as a Knife, edge downwards. In this position the joint of the instrument is pressed between the middle finger and the thumb, the index finger is a little advanced on the right side of the blade, and the two remaining fingers support the haft against the hollow of the palm; in this manner the bistoury is securely held, and can be easily manœuvred in any direction.

SECOND POSITION.

Bistoury held us a Knife, edge upwards.

The edge of the instrument being directed upwards, its point is seized betwen the index tinger and thumb, the haft now turned towards the palm is supported by the three remaining fingers.

THIRD POSITION.

Bistoury held as a pen; edge downwards, point forwards.

Here the thumb and two first fingers support and hold the instrument, while the two last fingers support the hand, by taking a point of rest on the neighbouring parts.

COURTH POSITION. Bistoury held as a pen, edge downwards, point backwards.

If when the bistoury is held in the third position, the wrist be bent, and the point of the instrument directed towards the operator, this, the fourth position will be given to it, the end of the middle finger, slightly changing position or moving from the right to the left side of the

FIFTH POSITION.

Bistoury held as a pen, edge upwards. The name of this position is sufficient to define it.

SIXTH TOSITION.

Bistoury held like the bow of a fiddle.

Pulp of the fingers pressing one side of the instrument, the thumb opposing them on the other; the edge of the instrument in this position may be directed upwards, downwards, to the right or to the left.

By frequent handling and manceuvring the knife, particularly on the dead subject, we shall become well accustomed to the sensations as far as our own fingers are concerned, connected with these different positions of the bistomy, and shall be able adroitly to take advantage of them as circumstances may require.

The degree of force, or the amount of delicacy, or caution, with which the surgeon may find it requisite to proceed, will generally suggest to him at once the choice of that position

best suited to his purpose.

The knife positions of the bistoury enable us to employ considerable force, the pen positions are favourable to more delicate touches of the instrument, while the fiddle bow position partakes somewhat of both. The bistoury should not open with a spring like a common pocketknife, nor should it, as is very common, be fixed between the two halves of the haft, by a mere rivet like a razor, but in addition to this, should have some sort of eateh, to snap and fix it firmly when it is once opened; made in this way the blade will not wabble about, when steadiness and firmness are required, and the surgeon will not be put out of temper by the awkwardness of a badly contrived instrument. THE SCISSORS.

Are handled by the surgeon as by everybody else-surgical scissors are straight, enryed in their breadth, or curved in their length. The latter kind were never much used in this the principal are three; for the bistoury may country until Dieffenbach's operation for squint- called upon me not so much to consult me re-

ing became fashionable amongst us, and some 40 or 50 new instruments were invented for doing a little operation for which even a penknife, or pair of common scissors out of a lady's work box might have sufficed. However both the operation and scissors are now much less fashionable than they were twelve months ago; but although the latter have no particular utility, the former is undoubtedly effectual,

Scissors are seldom required to be sharp at the point, they are generally better a little rounded, unless otherwise formed for some par-

ticular purpose.

The opinion which has prevailed that the incisions made by seissors partake of the nature of contused wounds, does not perhaps merit any particular attention; I have operated several times for hare lip within the liast two years, both with the bistoury and scissors, and have had no oceasion to find fault with the latter for any effect allied to contusion; whether the bistoury and seissors cut by pressing, sawing, or the union of both, or whether each has its peculiar mode of dividing the parts through which it passes, we will not at present consider.

It has been recommended to dip cutting instruments in oil before they are used-this does not appear to me to be a matter of any very great in contance, but I have always found them to act more agreeably when their temperature has been elevated by a previous dipinto hot-water; we know that razors cut much better with this precaution, and that a warmed catheter passes along the urethra more easily

than a cold one.

CLASSIFICATION. Surgical operations may be conveniently divided into

ELEMENTARY, GENERAL, AND SPECIAL; At any rate no other division of the subject occurs to me at present, better calculated to serve our purpose by facilitating our studies.

In the first set or elementary operations, are

included the considerations relative to the divi-

sion and re-union of parts, the doctrine of incisions and suture, to which we shall proceed

in the next lecture. All that relates to the handling of the amputating knife and the saw, will be noticed in our introduction to the subject of amputation.

Before we close the present lecture, Gentlemen, I will introduce to your notice, the subject of operations, which by patients we are from time to time requested to perform, even when we may be of opinion that some

contra-indication is in the way. Such operations, when they are performed, are called by our polished neighbours the French " Operations de complaisance." The best surgical writers however, do not recommend them, and it is easy to understand the necessity of abstaining from the running of any risk. where there is no probability of obtaining any eomparatively good result; revertheless there are eases of this kind, which present certain difficulties where it is not so easy to decide as might at first be supposed, as to whether the surgeon should yield to the importanity of the patient, or steer a decided course of opposition to his wishes. An operation would seem to me to be sometimes warrantable, although its issue be exceedingly doubtful, if the patient have a great desire that it should be done.

Certain cases of removal of malignant tumours might here be addiced by way of illus-Caneer of the breast for instance, tration. the removal of which by surgical operation is not now regarded in so favourable a light as it was twenty years ago. A case of this kind came under my notice last week, where a female, aged 45,a widow, who had borne children, left breast, as to request the immediate removal, drawn, but at the moment of extraction the of the part by the knife. The nature of the case having been previously explained to her by other practitioners, and the operation, as the of the eranium were fractured by the forceps, only possible means of cure, having been mentioned.

The tumour had already attained a considerable size, the nipple was retracted, or rather completely inverted, but there was no remarkable adhesion to the parts beneath, for the tumonr was perfectly moveable in every direction and felt as if imbedded in a large mass of fat; the breasts in this patient being of unusually great size. From the feel and appearance of this cancerous growth, one would have supposed its development had occupied twelve months at the least; yet the patient's history declared that she knew nothing of it until between two and three months ago, when at its upper part the integument inflamed and uleerated, adding that there had been no pain in the part before this period, and scarcely any

Her general health is excellent, and the aspect of the countenance healthy, with none of that sallowness or peculiarity of appearance so frequently associated with the existence of

malignant disease.

The general health being good, the general aspect favourable, the tumour of the breast not adherent, the axillary glands having undergone no change that could be appreciated, and the patient wishing to have the diseased part "taken out as soon as possible," her request was complied with and the breast removed.

Here we may be allowed time for two or three remarks which will seem more or less

out of place.

I have several times met with eases of schirrous tumours in the breast of women who had never borne children, and have some reason to think that cancerous degeneration of the mammary gland is more common where this structure has not performed the function for which it was destined at the ordinary period of life. In the ease just now related, the affected breast had not been employed in suckling the children previously borne from want of development of the nipple, the opposite breast doing the office of both. Perhaps by the careful collection of a good series of facts of this nature we might, from correct statistical reports, ascertain whether or no any importance is due to these considerations, not only as they affect schirrous tumours of the breast, but in their application to similar diseases in the os and cervix iiteri.

In the instance above noticed it might be said that the circumstance of perhaps an active secretion of milk without the ordinary efforts being made by the child for the depletion of its reservoir, was that which told against the future welfare of the part, suggesting the thought that want of exerction as well as secretion, may now and then interfere with the future safety of the mammary gland.

EXTRACTS FROM FOREIGN JOURNALS.

(For the 'Maproxi Times')

FRENCH. - Rupture of the Perineum throughout its whole extent; Communication of the Vagina with the Rectum; Successful Treatment by Suture. By M. Roux.

Case. - Delalande, 22 years of age, of a good constitution, presenting a natural conformation of the pelvis and parts of generation, was put to bed for the first time. She experienced un-settled pains for the first 24 hours, the fætus being in a good position, and the labour not

specting the nature of a cancerous tumour of the cation caused great pain; the child was withperineum was ruptured. The infant was welldeveloped; it weighed 18 pounds; the bones and it died five minutes after birth. The lochia came away readily; the perincum was considerably inflamed; the bowels were not moved for seven or eight days, but for three months afterwards she was almost constantly affected with diarrhera; the stools sometimes escaped involuntarily, and she became greatly weakened by the purging. The bowels were only slightly constipated by means of rice and coffee. She entered the Hotel Dicu on the 7th of August, three months after her acconchement.

Operation.—The day previous to the operation, we administered two lavements. Two portions of the skin were removed, so as to re resh the sides of the fissure, which had become cicatrized, and a similar process performed for the anterior surface of the rectovaginal partition; three figatures were applied by means of strong curved needles; the middle thread, finer than the other two, passed through the substance of the partition, so as to be brought forwards and fixed against the edges of the wound. After the application of the threads, and the approximation of the lips of the wound, a superficial twisted suture was applied, to keep in immediate contact the everted edges of the opening, A female catheter was introduced. The operation lasted 40 minutes. No had symptom occurred, beyond a very copious muco-purulent discharge from the vagina. The operation was performed on the 11th, and the threads were removed on the 17th, after administering a dose of castoroil the previous evening. She had, from the first, been unable to pass her water, so that it was necessary to use a catheter frequently, up to the 22d of August. When she left on the 30th, the cicatrix was firm and smooth; but there was a small recto vaginal fistula behind; she was very weak. Three months afterwards, there was no trace of the rupture; the orifice of the vulva was greatly contracted. small fistula had become completely obliterated, and all the tissues were firm and re-

Prolapsus of the Rectam of Six Years' Standing, occurring after a Natural Labour: Sulure of the Lower Extremity of the Rectum: Incomplete Civatrization. By the Same.

Case. - Janicot, 38 years of age, of a delicate constitution; this women had not always laboured under this affection. At the age of 32, after a natural and favourable labour, she for the first time perceived a tumour which escaped from the anns after the motions, or prolonged walking; this tumour she was obliged to return, although sometimes ex-ceedingly difficult; from time to time, slight hæmorrhage occurred. For six years this state continued, without her being confined to bed; she, however, became greatly reduced, and was often troubled with diarrhea. On the 8th of July, she entered the Hotel Dieu. Her appetite was still good. The tumour of the rectum was as large as two fists. This tumour, formed by the distended mucous membrane, was red and smooth; when pushed up within the anus, the perineum appeared flabby, the rectum relaxed, and the cavity above the splincter of considerable size. By introducing the two fingers into the anus, the sphineter could be dilated, so as to shew the interior of

Operation.—Two transverse incisions were much advancing, when the medical attendant made, each of the length of 3 centimetres, along applied the foreeps. This unseasonable appli- the sides of the anus; from the outer ex- be had through Dulau and Co., Soho Square.

tremity of these transverse incisions, two longitudinal incisions were carried, so as to converge towards the posterior part of the anus; in this manner two flaps were detached; the refreshed surfaces were drawn together by means of the twisted suture. A second superficial suture was afterwards applied, to keep the parts more perfectly in contact. Six hours after the operation, the patient withdrew the first suture. so that the superficial one alone remained; no hiemorrhage had supervened. During the last seven days, she hadhad no stool; some castoroil was given her; copious stools during the night; no prolapsus had since occurred. On the eighth day, the remaining threads were removed. The twentieth day,—diarrhera ocenrred; she was obliged to make continual strainings; the prolapsus, however, has not reappeared. The operation has apparently succeeded; but a relapse may probably occur as the layers are but superficially cicatrized. Complete cicatrization would probably have occurred, and so a perfect cure have been established, had not the patient had the stupidity to remove the suture a few hours after the ope-

(To be continued.)

FOREIGN LIBRARY OF MEDICINE, SUR-GERY, AND THE COLLATERAL

SCIENCES.
[Exclusively compiled for the 'Minitean Trans," from French, Dalian, and other Continental Periodicals.]

GERMAN.

MARY, C.F.II., de Paralysi Membrarum Inferiorum, Ho. Gotting. 3s. 6d.—Reich, Dr. G. C., Das Leben und Athonen-The Life and Respiration of Man, in its True Significations. 8vo. Berlin. 3s.
——Skoda, Dr. J. (of Vienna), Ucher Percussion, Syc.—Treatise on Percussion and Auscultation. 2nd Edition, 8vo. Vienna. 8s. 6d.—WILIAN, Dr. 11. Science and Art. Vol. 2nd, Part 2nd, The Discusses of the Birth, and their Treatment. 8vo. Frankfort. 10s. 6d.—Price of the complete work, £1. 8s, 6d.—Assurs, Dr. J. B., On the Medical Properties of the Chinin for the Cure of Consumption. Svo. Konigsberg. 2s.—Bressler, Dr. H., Kinderkrankheiten-The Diseases of Children. Parts 2 and 3. Berlin. 3s. 6d. each. -- Connadi, Dr. J. W. H., Animadversiones de Asthmathe priesertim Spasmodico et Thymico, Commentatio in Soc. Reg. Sciens. Gotting, recitata, 4to. 1s. 6d.-FENGER, Dr. E. E., De Erysipelate Ambalanti Disquisitio. Svo. Harmae. 5s.—Marx, C. F. H., De H ophio Celeberrimi Medici rita scriptis atque in Medicina meritis. 4to. Gotting. 4s. 6d.

, The German works above announced, may be had through Mr. Alexander Black, 8, Wellington Street, North.

TRENCH.

LISFRANC, J., Clinique Chururgicale de l'Hôpital de la Pitié-Surgical Observations, 2 vols. Svo. 16s. -Chavannes, II. de, de la Giraudière, Comment on peut cultiver avec succès le màrier dans le Centre de la France, 8vo.-On the Successful Cultivation of the Mulberry-tree in the Centre of France.-RAPON, AUGUSTE, Compte Rendu du quatorzième Congrès Homoopathique tenu à Leipsig, le 10th Ioût, 1842.—Account of the 14th Meeting of the Homocopathic Society in Leipzig, the 10th Aug. 1842. DUPONT, PAUL, Phetionnaire des Formules. 8vo. 98. -- LEDENTU, Esquissed'un Nouveau Mode de Traitement des Maladies Chroniques de la Pottrine, de l'Estomac, &c.—Sketch of a New Mode of Treating Chronic Diseases of the Chest, Stomach, &c. 8vo. -- REY DE SougLA, Guérisons Rudwales obtenues aux Consultations Gratuites de la Médicine Chinique-Radical Cures obtained by Gratuitons Consultations, 12mo, 2s. Bourgery, Traité complet d'Anatomie de l'Homme-Anatomy of Man. Folio. Liv. 62 .- Encyclog raphie des Sciences Médicales .- Encyclopédie des Sciences Médicales, No. 120.

* * The French works above announced, may

SCHOOL OF MEDICINE. PARK-STREET, DUB-LIN.—The Winter Course will commence on the 1st of November.

November.
Anatomy and Physiology—Hugh Carlile, M.D., T.C.D.
John Denham, M.D.
Surgery—J. W. Causack, M.D., M.R.I.A.; John Houston,
M.R.I.A.; C. Fleming, M.D., M.R.C.S.I.
Chemistry—John Aldridge, M.D.
Materia Medica—Richard Eades, M.B., T.C.D.
Midwifery—James Isdell, M.D.
Medical Jurisprudence—Henry Forde, M.B., T.C.D.
Diseases of Eye and Ear—Wm. R. Wilde, Esq., M.R.I.A.
Anatomical Demonstrations—John Denham, M.D.; John
Hill, M.B., T.C.D.; R. M.Donnell, Esq. L.R.C.S.I.
Dissections.—Under the superingulance of the Lecturers

Dissections,—Under the superintendence of the Lecturers on Anatomy and the Demonstrators.

Secretary, John Houston, M.D., 31, York-street

TO CORRESPONDENTS.

The interesting case of Epidemic Erysipclus in an carly aumber.

We have received a second startling communication from Mr. Macpherson Adams on his Mesmeric Experiments in Puris, which we shall publish in our next unmber. It is right that we should add that we have the authority of a gentleman connected with our office, and on whose honour and judgment we place implicit reliance for saying, that no man has been less open in his past character to the charge of ercdulity, and none has ever shewn a higher respect or zeal for truth for its own sake, than the Mr. Adams to whom we are indebted for these singularly interesting communica-

Potash Water.—A Subscriber thus writes to us on the subject of the recent inquest :-

"Sir,-Methinks, Mr. Editor, there has been a fittle too much of self manifested by the surgeon throughout this affair-too much of an utter recklessness of whom he drew into the halter, so as he himself kept his neck from the moose. I should imagine it would be difficult to find a druggist in the kingdom who would not have acted precisely as did the one in the present case. The Liq. Potassa' is very generally enquired for and spoken of as 'Potash Water.' In the Ph. Ed. it is called ' Aqua Petassæ,' and under these circumstances is not a man justified in sending out Liq. Potasses for Potashe's der. To suppose a person required the ærated, the 'real potash water as purchased at the shap of Savory and Moure, the well-known chemists of Bond Street, which completely resembles in colour and appearance a bottle of sodawater,' would be an illegitimate stretch of the imaginative faculties. To label, indeed, such an article as Liquor Potassæ 'poison,' would evince an old womanish sort of caution, and by the prescriber would probably be taken as a marked affront, if he had intended that article. As well might the druggist label 'poison' the tine, hyas, -tine, colchtine, ferri sesquichlor,-tine, canth,-ather,and such like, because in large quanties they might destroy life.

We are not of our Correspondent's opinion on the propriety of the Druggist's conduct. On the contrary, we believe that in a case of doubt, he acted in a mode which would have been perfectly unjustifiable in a state of certitude. The messenger's account was, ost unsatisfactory, and, if perfectly satisfactory, no such preparation should have left his shop without carrying with it an indication of its dangerous qualities. Surgeon's procedure was slorenty, and culpable to a most lamentable extreme, but if the Irruggist had discharged his functions with due caution, the valumity which now presses on the character and peace of both would have been spured. These remarks must be our notice to several other correspondents who have written to us on this subject.

Several Communications have been sent to us which are under consideration.

Declined .- Mr. T. F .- In Antiquary - The Ghost of the Lancet-Minos-1 Pupil of Bartholomews Echo-1 Well Wisher-1 Subscriber, (Edinburgh) -A Constant Render (Edinburgh)-A Constant Reader (Beverley.) Some of the communications, however, will be tunned to account.

We have received accounts announcing meetings of Students' Discussion Societies in several of the Hospitals. Our space has been so much encroached upon by what even our friends, the students, will probably consider more important matter, that we can only do ourselves the pleasure of expressing the high gratification which we have of their very presservorthy and self-rewarding efforts. We are gloss whear that

the lecturers at Westminster Hospital, the King's College, and Charing Cross, are giving these best of schools a warm support.

A Practitioner before 1815 .- The College of Surgeons now admits (as we sometime since suggested it should do) respectable practitioners to examination without certificates, &c. The fee for the diploma, however is not reduced.

We are asked "why the worthy Council of the College in Lincoln's Inn, have omitted in their list the dates of their own diplomas, having published those of all other members?" We are not perfectly in the secret; but know that the omission was the result of eareful deliberation. Some say that the thing originated in a piece of delicacy-in the fact that the rule was, that the place of the last new member of Council on the list marked a point, up to which the older, and yet excluded surgeous, had no chance of entry-for having once been passed by, their claims could never he reconsidered. Others say that the Memento was omitted on the principle which makes (we do not say other) ladies of a certain age, proscribe every fact which marks their whereabouts in the scale of For ourselves we attribute the important distinction to some sublimity of policy, whose heights and depths can only be fathomed by our tacitum friend, Mr. Babington.

Dr. Wake.—The double supply must originate, we should think, in a second order to another quarter. The rest will be earefully attended to.

ERRATA.

In Dr. Hunter's Lecture in our last number, at page 37, col. 1, for ulcerated cells, read nucleated cells; and in Professor Owen's Lecture, page 35, col. 2, for Gull read Gull.

TIMES. THE MEDICAL

Saturday. October 22, 1842.

They manage these things better in France .- STERNE. Our readers will remember that we last week spoke of the amabilis insania of the Drug Solons of Cockayne—the enterprising gentry, who, though smitten with the tongues of heaven knows how many bad and conflicting interests, are thinking of piercing the skies with a Pharmaceutic Babel. On reviewing the terms we then used, we are struck with their lacteal mildness, and at the wide chasm which gapes between them and the mighty presumption they aspire to depict. In the whole range of legislation we know not where to find a question, which, threatening to affect so extensively large social and class arrangements, involves higher matters of right, or expediency, or brings under discussion, subjects of more complicated, or momentous interest, than the question which yet to be settled between the British druggists on the one hand, and the British Medical profession and the public on the other, has been coolly taken up for definitive arrangement by Mr. Jacob Bell, and some half dozen dispensing hands of his domestic acquaintance. Napoleon's highest featwhich will endear him to philosophers, when children shall have learned to speak of his military name with horror or contempt-his immortal code of laws,-this in its different parts presents no higher distinction wherewith to wreathe his massive brow, than the magic power with which he formed for his country an enlightened body of pharmaceutists, and guaranteed to her in perpetnity, with the least possible drawback, all the benefits which the very best governmental arrangements could ex-

tract from them. If our governors (shall we include our pharmaceutic committee men?) have the aid of his splendid example, it must be remembered that they have also difficulties which he had not. England is no tabula rasa. Its habitudes and laws of centuries oppose a stout barrier to all legislation, which is at once novel and bold. In its complicated social state, the destruction of the bad—especially of a bad extensive and involved as that we are considering—is often a greater difficulty than the erection of the good. Yet here we must either have old habits and laws swept away by wholesale, or grapple with the harder duty of making our new arrangements destructive of the old evils, yet in symmetry with the old system. Enlightenment in the lawgiver, and fairness in the legislation, are not enough,-power and boldness must correspond. The best of changes in England must be evil for some one, and the man knows little of English history, who knows not how often the justice a well meaning lawgiver would do to posterity, is arrested by the hardships the act would inflict on contemporaries, or how often the boon demanded by fairness for the many, has been denied by the cruelty its concession would be to the few.

The regular induction of pharmacy into our country, and its establishment as a science with a competent body of cultivators-things that yet rank in the class of desiderata et valde deflenda-is a work of three aspects, each of dominant importance. The pharmaceutists, medical men, and the public, are each and all interested in every step taken; and contending, as may appear their varying claims, or rather rights-we dare not say interects-the legislator, who undertaking the matter, shall fail completely to reconcile them, will have worked to little purpose. For our partthough without believing that the solution of this difficulty is quite so easy an affair as Messrs. Bell and Company evidently consider it-we venture to think that the simple, but comprehensive scheme we have often glanced at, and now more distinctly propound, if carried boldly and prudently into practice by a well meaning government, would, while doing justice to all parties, and no small service to seience, relieve us for ever from this vexatious and harassing question.

Firstly.—We would ascertain the competency of every druggist in the Empire to perform the duties of his position. To this end we would at once have provisionary Courts of Examiners appointed. No man who should not satisfy them that he could discharge the functions of a druggist with safety to the public, should be allowed to practise pharmacy. The result of this would be obviously the retirement of hundreds of druggists; a far less evil, however, than their continuance in practice. These useful secessions would cause no inadequacy of supply: our own unemployed, but tested brethren, would be too happy to fill the vacuum.

Secondly,-All druggists passing these

examinations satisfactorily should, without charge to them, have a diploma attesting their competency, and a license, allowing them to practise pharmacy. The process is for the public's good; and the public should pay for it.

Thirdly.—Provision should be made for securing the public, in the future, with a full supply of the most highly-educated pharmaceutists, that state wisdom and power could produce. To this end, a good preliminary education should be demanded usually surmised. Our profession opens to from every one commencing the study of the young generation no glittering honours pharmacy. A limited knowledge of Latin, if not of Greek, and a solid acquaintance with his own language, are of primary necessity; and, low as education undoubtedly is in England through its inaccessible expensiveness, these should yet be arbitrarily insisted on. Two years with a licensed druggist, though perhaps a matter of doubtful necessity, might not Three further unreasonably be asked. years should be spent at a government College of Pharmacy, which should at once be founded; and when this course is completed, an examination should be demanded always sufficient to protect the publicbut varied in severity, proportionately, to the numerical wants of what would now be—a profession. We are far from wishing to limit freedom of education, especially, when competency is to be tested by a final examination; but the wretched position which English pharmacy now occupies, makes us see several utilities in the establishment by government, of four or five central normal schools, where the experience and knowledge of our few able professors might be turned to the most extensive and profitable account possible.

Fourthly.—We would adopt measures to confine pharmaceutists to their own profession. We would, by an enforced public inscription in their shops, exactly teach the public, the character of their knowledge and duties; we would have their licenses dependant on the honesty of the possessor's praetice; we would enact small penalties, easily and speedily levied, for every open invasion of the doctor's domain, and provide that severe punishment (quickly inflieted), for serious ill consequences of malpractice, which would make it the interest, of even the unprincipled, not to incur the hazard. This, to the druggists, will appear severe; but it is no less essential to the due honour of their own study, than to the preservation of the just rights of the medical profession-and the safety and well being of society. Pharmacy with all its varied divisions, and exhaustless materials, will task singly the utmost efforts of its ablest and most devoted cultivators, and that government can scarcely lay claim to the merits of paternal economy, or sound policy, which, by its non-interference, encourages its subjects to those divided and distracting labours which makes them useless to one highly important profession, and noxious to another. If the claims of pharmaey-so disgracefully low in our otherwise distinguishingly scientific country

-be too weak to influence our governors to put a stop to that dishonest intermeddling of druggists with a business to which they are no more akin than the thousand other classes of tradesmen, who aid in keeping the animal economy in a state of comfort or health, let us beg them to remember that the existence of one of the most useful classes of men in the country, our medical practictioners, is more emperilled by the continuance of so gross an abuse than is -no very probable chances of large fortunes; it is comparatively costly of entrance: years of peculiar duties and hard and repulsive studies are necessary preliminaries: ceaseless confinement as to time and place—drudging attendances in all weathers, and all seasons of the day and nightlimited remuneration-and endangered, and usually shortened, lives; these, the common fate of medical men, are the prospects which (with darker shadows every new day), stand before the youth who thinks of entering our profession.

Need we remind our governors that while the very men we want-men of respectability and cleverness-will be certainly kept out under such a system, we can have no very secure guarantee on the other hand, that a sufficient number of our body of even ordinary qualifications, can be permanently sustained to supply the wants of the public? We are not dependent on speculation in coming to this conclusion. The recent entries at our metropolitan and even provincial schools, speak trumpet-tongued of the diminution of medical candidates, and we venture to tell our Government, that if it does not take some efficient steps, we will not say for the encouragement, but the protection, of our profession-among which we consider, as of the very highest importance, the destruction of that alarmingly increased, and increasing evil-druggists' medical practice—a day may come which will present our present superabundance reversed, and show to us our country—it may be in a period of pestilence-deprived of that boon, which, like so many other blessings, is only properly prized and appreciated in its absence and in the hour of need-an enlightened, a learned, and a benevolent medical profession.

PREPARATION OF ERGOT OF RYE.

To CHARLES CLAY, M.D., Manchester.

SIR,-It was with great pleasure that I read your observations on the ergot of rye, published in Medical Times for Sept. 3d, and in every respect do I agree with you as to the priority the decoction of ergot of rye claims over every other preparation of that drug; but there are to be met with many eases where the secale cornutum is especially indicated and where the delay in its administration occasioned by the necessity for its extemporaneous decoction, would be attended with dangerous and not unfrequently fatal results.

If you could point out any way in which this evil might be obviated, it would doubtless be read with great eagerness and attention by many others as well as your obedient servant,

J. RIDOUT.

Strattord, Essex, Oct. 10, 1842.

CASES OF PERITONEAL SECTION FOR THE

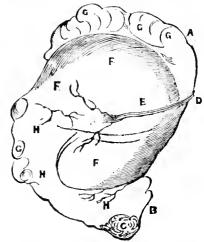
EXTIRPATION OF DISEASED OVARIA BY THE LARGE INCISION FROM STERNUM TO PUBES, SUCCESSFULLY TREATED.

By CHARLES CLAY, Member of the Royal College of Physicians, London; of the College of Surgeons, Edmburgh, and Lecturer on Metheal Jurisprudence, &c. Piccaduly, Manchester.

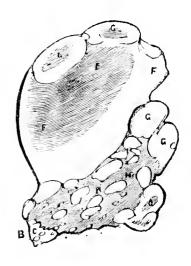
(Continued from page (5.)

DESCRIPTION OF THE TUMOUR.

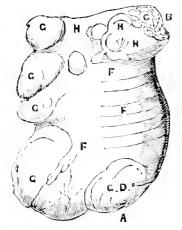
The tumour weighed 17 pounds 5 ounces, apothecaries' weight, and its largest circumference was three feet, eight inches, its shortest circumference two feet, inclined to be oval in its form, fly. 1. The part marked A was situ-



ated under the umbilicus, and formed the most prominent part of the abdomen. B was the pelvie mass, of which the part marked c was ulcerated. p. the pedicle, where it was cut. E the faltopian tube, broad ligament, &e., attached to the tumour. FFF the large sac capable of holding about six pints, GGG smaller sacs holding from half an ounce to half a pint each. unn the solid part of the tumour composed of still smaller cells, filled some with pus, others with a brain-like substance, the interstices being fibrous and eartilaginous, in some parts so hard as to injure the edge of the scalpel. The contents of the large sac were a thick glutinous substance not unlike the albumen of an egg half boiled, but in no part did I observe the coffee-coloured liquid noticed by most writers; the fluid here found coagulated on the application of heat. On the opposite surface the smaller sacs, to the number of six or seven in the whole, were more distinct, as in fig. 2, marked by the same references as the last diagram.



A view of the tumour in section will show the more solid part of the tumour distinctly from the large sae, fig. 3.



Independent of the tumour and its contents, there were about six and a half pints of ascitic fluid in the abdominal cavity. When the inspection of the tumour took place, Drs. Radford, and Black were present. There are many circumstances connected with these particulars, I wish the reader to bear in mind, as they are of great importance in determining on the plan of operation; and by which, I shall endeavour to shew, that under the well known obscuritywhich exists in the symptoms of all ovarian tumours, the operation by large incision is safer, and better than any other plan.

SUMMARY OF THE TIRST TWENTY-FOUR HOURS AFTER THE OPERA-TION.

Temperature of the Apartment.-It will be observed that the room was kept as nearly as possible to one temperature; a circumstance of no small importance in the management of so critical and serious a case,

Pulse.—The circulation with those exceptions marked at the 8th and 195 hour after the operation, was soft and easily compressible; at the two periods aliuded to, it was a full, strong, and hard pulse, consequently bleeding was resorted to; at the 8th hour to Exiv. when sickness occurred, and again at the 191 hour to Evilj, when sickness came on. After the first bleeding the pulse fell to 84 and soft. After the second it rose to 100, but remained soft and feeble, both bleedings exhibited the buffy crust. The blood was taken quickly from a large orifice,

Skin .- After the first six hours had expired, (the skin was generally warm and moist during the six hours alluded to,) the face, hands, and feet, were particularly cold, and moist, like the asphixiated stage of cholera. At the two periods, when the pulse stood at 90, the skin was hot and dry,

Tongue and Thirst, During the first t as d moist, with the exceptions as above; when the pulse stood at 90, then the tongue was clean, but dry, accompanied with thirst. I may observe, however, that the thirst was never to any extent throughout the case.

Flatus.--It was truly astonishing how free

				-					
Apast 6—2 I homs after operation.	8 p. m.—4 Fours after operation.	10 p. m6 hours after operation.	12 p. m.—8 bours after operation.	to tarm, Sept. 13th — II , hours after operation.	6 a, m,—14 hours after operation.	9 a. m.—17 hours after operation.	hours after operation.	l p. m.—21 hours after op-ration.	to 4 p.m.—21 hours after operation.
70	70	70	68	70	68	68	70	68	70
80 Soft	88 Full	88 Full	90 Full strong	86 Soft	×6 Soft		90 Full and strong	100 Soft and compress.	98 Very soft
Cold Moist	Warmer and more moist	Warm	Warm	Warm and moist	Warm and moist	Warm and moist	Warm	Warm and moist	Warm aml moist
Natural	Natural	Natural	Clean	Clean	Clean	Moist and clean	Dry and clean	Moist and clean	Moist and clean
None	Little	Little	Little	None	Little	Very little	Little	None	None
None	None	None	None	None	None	None	None	None	Little
Violent in the loins	Violent in the loins	Violent in the loins	Tritling	None	None	None	Some in the loins	None	Little
None	None	Λ little	Left her	None	None	None	None	None	None
None	None	Λ little	Little	Little	Very little	Very little	Little	Very little	Very little
A little	None	None	None	None	None	None	None	None	None
None	None	None	None	None	None	None	None	None	None
None	None	None	None	trawn to 5vi	None	None	None	None	Drawn to 5viij
None	None	None	None	None	None	None	None	None	None
Free	Free	Free	Free	Free	Free	Free	Free	Free	Free
Com- plains of	Left her	None	None	None	None	None	None	None	None
None	None	20 minutes	lo min. sound	80 min.	70 min.	20 minutes	None	20 minutes	120 minutes
Face and foct perificularly cold—ordered stocks, ings on the arms and lees—gave mur, morphine, fer, ss, in pill—genel diet—toast water—panacka— and softened German rusks.	Ordered the recon windows opened—and a cup of tea—ferner diet.	She felt seepy, and as the morphime bad not produced any sleep gave ber m. 50 thert hyoszlates —felt a little pain at the ligatures when coughing —diet continued.	As the pulse was 90 full and strong—bled from a large orthog to \$804, when sickness came on—pulse after bleeding, 84, and soft—and a dow of perspiration covered the skin—diet continued,	The urine drawn by the entheter was of a pule shery, colour natural in smell—diet continued.	Feels a little sereness in the line of the sutures— the blood drawn at 12 o'clock exhibited a buffy crust— —when still, perfectly confortable—diet continued.	Ordered enona, with ol: richii—and to be re- peated two or three times, if necessary—diet con- tinue l.	The enclus were not up to this time ejected, they were repeated—bled to \$viij, when she foll sick—pulse after bleeding, 100, but soft and compressible— yors-jiration cane out over the whole body.	Still to return of enemas—had conited twice—the blood perviously taken showed a buffy crust—nemas with of ter-binthine and of; ficini ordered, and it the repeated two or three times—jiet confinied.	Still no return of enomes—wrine natural colour and smell—fiatus to the first time—ordered a continuance of enemas—patient expressed herself langry—diet continued.
	80 Soft Cold Moist Natural None None Violent in the loins None A little None None Complains of	Soft SS Soft SS Full	To 70 70 70 To 70 70 70 To 70 70 To 70 70 To 70	Soft SS SS SS SOFT STORY	Solution	None	To To To To G8 To G8 G8	Soft Full Full Soft Soft	Soft Soft Full Strong Soft Soft

four hours the tongue kept remarkably clean four hours, which I attribute to the peculiar during the operation, and to the lightness left before the operation to unload the intestines; the satisfactory effects of which I had very frequently proved, and recorded my experience of it in the Medical Pimes.

the bowels were from flatus at the time of the very severe pain in the loins and right iliae. In testing the abdominal region for the pur-

evacuant power of the inspissated ox gall given on the vessels and pedicle, a circumstance wholly impossible to avoid. After the first bleeding the pain left the parts; a slight recurrence of it came on a little before the second bleeding, after which it was wholly and Para. During the first six hours there was effectually removed, and has not since returned. operation, and even for some days after, but region, this was attributed to the stretching of pose of discovering any tendency to inflammator

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General Remarks.	Voniting.	Sheepi.	Motions.	Urine.	Cough.	Pain.	Flatus.	Thirst.	Tongue.	Surface of the the body.	Pulse.	Temperature.	FROM 24 HOURS AFTER THE OPERATION, TO THE CONCLUSION OF THE FIFTH DAY,
Enemas continued—Gave mur; morphine half a grain.	Three times.	ga min.	None,	None.	Little.	None.	Nome.	None.	Clean.	Warm e and moist.	7.sft.	7 =	past 7 o'clock p.m. 27 hours after,Sept.13,
The morphine not effective, gave her Tinct, Hyoseyam, 50 drops in tea—Clys- ters not yet returned	Twice.	uin.	None.	None.	Little.	None.	None.	Tri- flings	(Jean.	Warm and moist.	90 Soft,	70	12 o'clock, night, 32 hours after,
Patient very cheerful—Vomiting not distressing—Some of the last clyster returned—Urine, natural in colour, and smell—Diet continued.	Thrice.	minutes.	Very little.	Drawn 5vi.	Little.	None.	None.	More.	Dry.	Warm.	90 Fullor.	G,	½ past ба.т. Гарт. 14, 38½ hours after.
Belly slightly tympanitic—Flatus felt for the first time—No more clysters re- turned—Clysters repeated.	None.	60 minutes.	None.	None.	Little.	None.	Little.	ling.	Moist, a little seurf.	Warm and moist.	Softer.	6. 8.	H ₂ hours after operation.
Still no return of the clysters—Urine natural—Flatus more troublesome—Diet and clysters continued.	Once,	minutes.	None.	Drawn 5v.	Little.	None.	Little	Little.	Rather moist.	Warm and moist.	1. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	70	46½ hours after operation.
Felt a sensation as if a motion would come.	Three times.	min.	None.	None.	None.	None.	Little.	Tri- fling.	Moist.	Warun and moist.	<u> </u>	3	49 hours after operation.
Still no motion from the bowels.	None.	min.	None,	None.	Little.	None.	Little, Little.	None.	Clean.	Warm and moist.	E E	6,	52 hours after opera tion,
Clysters were again given, and the abdominal region assisted by a six-tailed bandage—A large mass of clyster and focal matter returned.	Oane.	loo miantes.	None.	None.	Little.	None.	Linde.	Tritling.	Moist.	Warm and moist.	S. S.	71	55; hours after operation.
A tube introduced into the rectum, an enormous quantity of flatus was discharged—Takes her diet very well.	None.	minutes.	None.	Drawn to	Linte.	None.	Con- siderable.	None.	Clean and moist.	Warm and moist.	it.	70	62 hours after opera-
Feels perfectly free from pain,—only tired of lying on her back, and very hungry.	None.	nintates.	None.	None.	Little.	None.	None.	None.	Little furred.	Warm and moist.	Soft.	70	65) hours ofter ope tion; } past 9 o'clock a.m., 15th.
Diet continued.	None.	min.	None.	None.	Little.	None.	little.	None.	Moist andred tipped	Warm and moist,	2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	71	70 hours after opera tion,
Diet continued.	None.	None.	None.	None.	Little	None.	Very	Little.	Furred	Warm and moist	ž. X	77	733 hours after operation.
Clysters ordered to be continued, with the assistance of the bandages—Freed matter brought away—Urine natural— Gave Tinet, Hyoseyam as before,	None	minutes.	None.	Drawn to 5xii.	None.	None.	Very little.	None,	Farred Cleaner and moist.	Warm and Moist.	voi:	70	79 hours after operation.
Diet continued.	None.	minutes.	natural.	None.	Little.	None.	None.	Little.	Rathe dry.	Rather dry.	Yoff, 2	70	7 o'clock a.m., Sept 16,87 hours after.
Diet continued.	None.	None.	None.	None.	None.	None.	None.	None.	Moist.	Moist and warm.	x st	70	90 hours after.
Diet continued.	None.	unin.	None.	None.	Name.	None.	Very little.	None.	Clean and moist.	Warm and nioist	7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	70	96 hours after operation.
Diet continued.	None.	None.	None.	None.	None.	None.	None.	Very little.	Moist and furred	Warm and moist.	100 Soft.	71	100 hours after operation.
Aphtha appeared slightly in the mouth—Ordered a linetus, with Boray soda—Repeat enemas—Half-a-grain mar, morphine, and 50 m. Tinet. Hyos, at bed-time.	None.	None.	None.	Drawn to Swi	None.	None.	Little.	None.	Cleaner.	Moistand warm.	off. 8	강	104 hours after operation.
Felt very well—Clysters not returned—Complains of hunger—Diet the same.	None.	4. hours.	None.	Name.	None.	None.	None.	None.	Clean and moist	Warm and modst.	ig. 3.	70	Sept. 17th., 7 o'clock a.m., 112 hours after.
Diet and drink as before,	None.	s. None.	None.	None.	None.	None.	None.	None.	Chan and transit.	Warm and moist.	Soft.	70	111½ hours after operation.
First time of passing water naturally— Dressed the wound—Found it healed, ex- cept helf-an-inch at the umbilieus, and half-an-inch where the ligature passed out- ward—Changed her bed and linen—Did not appear fatigued with the exertion.	None.	None.	Three, natural.	Naturally, 5xvi.	None.	e. None.	None.	None.	n (Tean & moist	Warm & moist		70	1221 hours after operation,



action, both general pressure, with the bands spread, and particular pressure over various localities with the tips of the fingers, were resorted to, and this is to be considered when speaking of absence or presence of pain in the future statements of the ease.

Light-headedness.-Not the slightest disposition to this tendency manifested itself (with the exception of about an hour before the first bleeding, after which it never occurred

Cough.-It will be observed that occasionally a slight cough troubled her; this commenced about six hours after the operation. It appears from inquiries made, she was suffering from a little cold at the time of the operation, but about which she kept silent lest the confession might delay the time of performing it. Although it was but slight, and no bad effects arose from it, yet I must confess had I been aware of it, I should have postponed operating to a more favourable opportunity.

Shivering,-This never occurred but once, and that during the first two hours after operat-

ing, and then but slightly.

Hamorrhage. - This much dreaded item never made its appearance, even in the slightest degree during the whole progress of

Urim, - The bladder being effectually emptied at the time of the operation by natural means, there was no call for the catheter until near twelve hours after the operation, when six ounces were drawn off, of a pale sherry colour, and natural smell. The catheter was again introduced at the expiration of twenty-four hours, when eight ounces were drawn off, of a natural smell and colour ..

Motions .- No evacuations from the intetines during the above twenty-four hours took place, although enemas were freely and frequently administered at the early part of the time with oatmeal gruel and olei ricini, and the latter part of the same time with the addition of the olei terebinthing. In this, there was nothing very remarkable, as the bowels had been so effectually emptied by the exhihition of twelve grains of the inspissated oxgall before the operation; a preparation in which I have the utmost confidence as an evacuant without creating the least excitement, and which in my opinion is far preferable to doses of drastic purgatives, as recommended by Mr. Lizars, preceding the operation.

Respiration.—This function was never in the least degree interfered with during the progress of the case, the breathing being always

perfectly easy.

Coldness.—During the two hours this sensation was felt severely, the face, hands, and feet, had much the same character as asphixiated cholera; at the termination of the second hour it disappeared and never recurred again.

Sleep .- The portion of the twenty-four hours spent in sleep amounted to six hours and ten minutes, and this at ten different sleeps. As there are but seven mentioned in the table, 1 may observe that the third, fourth, and last items are two sleeps combined together,

Diet,-The diet was of the simplest possible description, every thing in the shape of stimuli carefully and rigidly avoided. Boiled bread, toast water, thin solution of gum arabic, arrow root, gruel made in water, and German rusks, softened in toast water, formed the only diet for the first five or six days; and from that time to the twelfth day only tea, coffee, and a little milk to the water, with which the arrow root was made, were the only things added to the former articles of diet.

Vointing, I ought to have observed, occurred twice towards the conclusion of the first twenty-four hours; it appeared to arise from the operation.

the taste of the olei terebinthinæ, which had risen to the month from the cuemas, but the efforts of vomiting did not in the least distress her, except a little pain like smarting at the stitches close to the umbilious.

Concluding Remarks.—A progress more satisfactory it was scarcely possible to auticipate, and with rigid attention to the rules prescribed, we had every reason to hope for a favourable termination of the case, and it is but justice to say, the patient exhibited a fortitude during the operation, and a strict determination to obey the injunctions to the very letter, that rendered success still more probable.

From the eircumstance of some of the above tabulated items never occurring again during the progress of the case towards complete recovery, I shall omit them in the subsequent tables, such as coldness, disturbed respiration, hæmorrhage, shivering, and light-headedness; should any other item be omitted it will be from the same cause.

The second table continues the case to the conclusion of the fifth day, when the first

dressings were removed.

Summary from the conclusion of the first twenty four hours after operation, to the eve of the fifth day, when the incised wound was dressed for the first time, deduced from the

Temperature of the apartment.-The temperature was still kept up to its usual height, as

expressed in the first table.

Pulse.-The circulation though expressed in different numbers, was always soft and compressible, with one exception, when it stood at 90, and fuller, which was soon after followed by copious perspiration, when it immediately became quicker, but very soft.

Skin.-Twice in the above space the skin assumed a dry character; it was however, but temporary, neither time exceeding two hours.

Tongne Only became temporarily dry whilst the skin assumed that character.

Thirst,-Though seldom really absent, was never otherwise than trifling.

Flatus - Was frequently felt, but in a trifling degree; the tube introduced into the rectum effectually emptied the bowels of all gaseous matter, when applied; the flatus had entirely ceased before the conclusion of the above table,

Pain.—During the whole space entirely absent.

Conyh.-Was never distressing, disappearing after the fourth day.

Urine .- Had been drawn off by the eatheter five times in the space tabulated; the full amount of fluid, fifty-one ounces. At the conclusion of the fifth day, she passed urine naturally for the first time, to the extent of sixteen ounces.

Motions .-- The first motion by natural effort was on the fourth day, and on the eye of the fifth she had three natural evacuations. Previous to the fourth day, the motions procured by clyster were assisted by a double six-tailed bandage imitating abdominal muscular action, a means that I have frequently seen effective in other cases. Where clysters have been obstinately retained, it is necessary to apply the bandage about five minutes after the exhibition of the clyster, and instruct the patient to assist by bearing down a little and holding the breath.

Sleep.—The extent to which she enjoyed

refreshing sound sleep in the last four days, was remarkable-not being less than twentyfive hours, which, added to the six hours and ten minutes in the first table, makes a total of thirty-one hours and ten minutes.

Tomiting .- Was never distressing, and finally disappeared on the eve of the second day after ber of new experiments from which I conclude;

Wound, Dressing.—On removing the dressings, the wound looked remarkably well, and with the exception of balf an inch near the umbilieus, and about the same space near the pubes, where the ligatures of the pedicle and vessels came outward, the whole had adhered: the patient experienced little fatigue from the dressing and changing the hed and linen; it was with difficulty she was restrained from giving a helping band.

ORFILA'S LECTURES ON ARSENIC.

Containing an Account of the different Operations performed upon the Body of Laffarce.

Collected and Translated by JOHN DAL FLAZ. Pharmacien and Lancate of the School of Paris.

LECTURE VIII.

GENTLEMEN,-I terminated my last lecture in speaking of Monsieur Rassori's ideas with respect to arsenical toxication. Monsieur Rogetta, who adopts the same opinions, has endeavoured to render them popular in France; he considers arsenical intoxication as an asthenia, and proposes, as a curative method, the use of broth and brandy. I established, in my first memoir the advantages derived from bleeding in cases when a powerful reaction occurs. This mode of acting has been strongly criticised by Monsieur Rogetta, who asserts that, by bleeding we increase the effeets of the poison, and consequently the life of the patient is sacrificed. Finally, this gentleman wrote to the academy of medicine, requesting they would name a committee to examine these two modes of operating in experimenting upon animals.

This request was also made by myself; in consequence of which a committee, composed of Messrs. Oliviers d'Angers, Amussat, Lecame, Bouillaud and Husson, was named. The experiments were continued during four months, in which time forty dogs were poisoned and submitted to the two modes of treatment; some were bled, while to the others was administered broth and brandy. A certain number of the dogs vo-mited, and, I must confess, almost all those who were lded died, whilst one-half of those who had taken the tonic mixture (broth and brandy) re-

covered.

Such were the results presented to the academy by Monsieur Olivier d'Angers who, at the same time, declared the experiments had been badly conducted, and that comiting ought to have been prevented by tying the osophagus. This opera-tion had been proposed, but Monsieur Rogetta was opposed to its being practised; nevertheless, the Royal Academy, from these results, encouraged Monsieur Rogetta to continue his experiments. In consequence of these having been badly conducted, I requested they might be repeated in a different manner; it was my opinion that vomiting ought to be prevented, as dogs are not easily poisoned with arsenious acid on account of the facility with which they eject the poison. It is, therefore, indispensable, when such experiments are to be properly conducted, that a ligature be applied to the osophagus after introducing the poisonous matter. The following results confirm what I have already stated respecting these opera-

1. If arsenious acid is administered to a dog, and the resophagus is afterwards tied, death is sure to result.

2. If to another dog the asophagus is tied and no poison has been administered. death will not result; when the ligature is removed, the animal will cat and drink as usual, although the esophagus had been tied for 24 hours.

It was in consequence of my insisting upon these two facts that the academy appointed another committee which during a great length of time (19 months) did not assemble once, and consequently made no experiments. Nevertheless it was asserted, in a certain public paper, that our mode of treatment bastened death in a striking manner; that the first committee had declared it to be attended with dangerous results, and gave their preference to the treatment by tonics,

Being, however, fully convinced of the superiority of my method, I was induced to try a great numif a dog poisoned with 25 centigrammes of arsenious acid can vomit after a certain quantity of water has been administered, he will recover.

If, on the contrary, after the introduction of that same quantity of arsenious acid, the ligature of the osophagus is performed, death is sure to result.

I have also repeatedly tried the treatment by tonics, and have found death ensues much somer, provided the esophagus is tied. These results induced Monsienr Rogetta to repeat his experiments upon horses, who, as we know, have not the power to vomit.

Only one out of 14 of the horses poisoned, and afterwards treated by tonies, died: several others were bled, and of these only two were cured.-There is nothing very extraordinary in this; { never said that good effects were always produced by bleeding, but I stated it should be resorted to when there are signs of a powerful reaction. It is the intention of the academy to repeat the experiments upon dogs: I am confident if these are properly conducted, the result will prove the truth of what I have before stated, and which I again repeat. If a dog vomits immediately after taking the poison, death will not ensue, and I persist in saying the treatment recommended in my last lecture is the most rational; and that it is indispensable in cases of poisoning by arsenions acid, to evacuate the poison by vomiting. I also again assert that the Italian mode of treatment ought not to be adopted.

In the preceding lecture, I mentioned the property hydrated peroxide of iron possesses to combine with arsenions acid, and I recommended itsuse in cases of poisoning by this substance; the experiments of Messrs. Lesueur, Sandras, Monat and Deville upon dogs; and those of Monsieur Bonley upon horses, together with the several cures effected upon man, heave no doubt of the efficacy of this chemical agent. An objection to the use of this antidote may be that it sometimes contains a minim portion of arsenious acid. It may be asked whether, in this case, the administering of such an antidote would not severely aggravate the state of the patient? The following experiment is sufficient to prove that such a peroxide of iron may be used with perfect safety.

Four onnces of an arsenical peroxide of iron were administered to a dog, and the esophagus afterwards tied. From this freatment no poisonous effects resulted. I then destroyed the same dog by hanging him, and although the strictest research was made to detect the poison in the organs, none could be discovered. This may be easily accounted for. We have only to reflect upon the infinitesimal quantity of the poison in combina-tion with four or six ounces of the peroxide. That absorption could not occur is evident from the chemical influence exercised by such a large excess of peroxide of iron, and Berthollet has sufficiently proved the influence of masses, with regard to chemical decomposition, to admit of our assertion respecting arsenical peroxide of iron. It may, however, be easily ascertained by Marsh's apparatus whether the peroxide of iron is arsenical or

I shall now discuss another point relating to this subject, and which may at first seem rather complex and difficult. 1 will suppose an individual to have been poisoned by arsenious acid, and the medical attendant has administered perovide of iron. Nevertheless, the patient dies a short time after this antidote has been employed, and at the post mortem examination the peroxide is found in the digestive tube, consequently, when analyzed with the other matters contained in the stomach, &c., arsenic will be obtained, and the experimenter, who knows perfectly well that the hydrated peroxide of iron may have been arsenical, is greatly embarrassed to discover whether the arsenic proceeds from the peroxide, or from arsenious acid purposely administered. Experience has solved this difficulty. If arsenical peroxide of iron found in the digestive canal does not leave arsenious acid in solution, after having been boiled a long time in distilled water, it may be asserted, if it yields arsenie by other means, that the poison proceeds from the impurity of the peroxide; if, on the contrary, this has combined with arsenions acid already in the stomach, the arsenious acid thus united to the peroxide would have been retained

in the boiling distilled water, which, nevertheless could not extract the arsenions acid naturally constained in the peroxide of iron. Again, add the suspected peroxide to a solution of caustic potash; this alkali, although it will not eliminate the poison naturally combined, will certainly extract that which has been recently neutralized by the same peroxide, provided the arsenious acid does not exist in too minute a proportion. The arsenite of potash thus obtained may be immediately detected, either by suphmeetted hydrogen, or by Marsh's apparatus.

Gentlemen, I think I have now refuted all the objections which can possibly be offered in favour of an accused: I should have completed this task of making you acquainted with my medico-legal doctrine, in cases of poisoning by arsenious acid, had I not the desire to inform you of the various operations resorted to in the case of Mousieur Latturge.

The first medical attendant of Monsieur Laffurge was Dr. Badon: this gentleman did not suspect that poisoning had been effected, and from the nature of the matters ejected, he thought the complaint was a volvulus.

On the 13th of January, 1840, Dr. Lespinasse was called to attend the patient: he expresses himself as follows:—

"Upon my arrival, I found Monsieur Laffarge pale and thin; he complained of constriction in the throat, the bottom of which appeared red and inflamed; he was much exhausted by continual vomiting, and frequent hiceups; all his extremities were cold, the circulation scarcely sensible, and the beatings of the heart quite disorderly; syncopes occurred at intervals, and were followed by continual agitation. From these symptoms," adds Monsieur Leafiarge had been poisoned: I consequently administered peroxide of iron."

Without doubt, this doctor was fully convinced that the symptoms were such as to justify him in

making so positive an assertion.

The patient died on the 14th of January; and, upon opening the body, the stomach was found to be inflamed, and to bear several ecchymoses; the duodenum had a real gangrenous stain, and the valves of the heart were more coloured than usual. A medico-legal examination was then ordered by the judiciary authorities, to be made upon a "lait de poule," which yielded a very small quantity of arsenic.

Several other liquids were afterwards examined, and those treated with a few drops of a solution of sulphuretted hydrogen, yielded a yellow precipitate of sulphuret of arsenie. The eighth analysis was that of the liquid contained in the stomach, together with a decoction of a portion of this organ: the liquid thus obtained, acidulated with hydrochloric acid, and afterwards submitted to the action of sulphuretted hydrogen, afforded a yellow precipitate of sulphuret of arsenie. Metallic arsenic was not obtained, in consequence of an accident which occurred during the analysis of the sulphuret from which it was to have been climated; the tube, in which was contained this compound, mixed with charcoal and carbonate of potash, burst,—the extremity having been, by inadvertance, hermetically sealed.

Nevertheless, the experimenters concluded to the presence of poison, although they had not obtained it in the metallic state. I have already said this conclusion ought not to have been offered before they had obtained the metal.

Other experimenters analyzed the fourth part of the stomach, which had been preserved in alcohol; this was carbonized by nitric acid, but the charcoal thus obtained offered no positive results. Another portion of the stomach was boiled in distilled water, and the filtred decoction submitted to the action of various tests, such as nitrate of silver, sulphuretted hydrogen, &c. &c., produced no positive results. Then the matters contained in the stomach were submitted to the action of Marsh's apparatus without effect.

In consequence of these operations being at-

 A popular remedy, made by dissolving the yolk of an egg in eight ounces of boiling water, then adding sagar and orange-flower water q. s.

tended with negative results, the body was ordered to be exhumed, that other experiments might be performed upon the liver, the heart, and a portion of the intestines. These were carbonized, and a filtred decoction of the charcoal obtained was submitted to the action of Marsh's apparatus: in this case, again, the presence of arsenic was not detected. Nevertheless, Dr. Lespinasse was still convinced, from the symptoms observed upon Monsieur Laffarge during life, and from the lesions observed at the post-morten examination, that poison had been administered; he assures, us the jet of inflamed gas was nearly two inches long, and we know that under this condition metallic arsenic cannot be condensed upon the capsule; however, he also says, he obtained two arsenical stains, towards the end of the experiment.

The judiciary authorities having decided upon further investigations, Messes, Olivier d'Angers, Bussy, and myself, were requested to undertake

them.

We commenced by carbonizing with nitric acid the part of the stomach remaining, the matter ejected, and the liquids found in the digestive tube; the charcoal we thus obtained was boiled in distilled water, and the filtered decoction introduced into Marsh's apparatus. From this experiment we obtained a small quantity of metallic arsenic.

A second experiment was then made upon the mass of matters labelled, "Matters from the organs of the thorax, the abdomen, the liver, the heart, and the brain." Two distinct operations were performed upon this mass. We boiled the whole in distilled water during four or five hours, and strained the decoction through a cloth; this decoction was then evaporated nearly to dryness, and the residue, having been earbonized by nitricacid, produced a charcoal, which yielded about the same quantity of metallic arsenic as we obtained in our first experiment.

We next examined the solid matter separated from the decoction, and which had been carefully laid aside. This we incinerated by nitrate of potash; had we in this case used nitric acid we should have obtained a bituminous charcoal, the inconvenience of which I have before stated. The solid matter was burning during seven hours before the whole was perfectly incinerated; we then operated upon one-half of the residue, in the manner already described in a former lecture, and from this we obtained twelve times as much arsenic as in each of the former experiments. This result was so satisfactory that we did not consider it necessary to operate upon the remaining part.

A piece of flesh cut from the thigh of the corpse was afterwards examined; it was incinerated by nitrate of potash as in the preceding experiment; in this case no indication of arsenic was observed, although the flesh weighed two pounds.

A portion of the shroud in which the body was enveloped was also examined; it was boiled in distilled water, containing pure caustic potash; the liquid thus obtained yielded no signs of arsenic.

Our next examinations were upon two of the samples of earth collected; one of which was taken from under the coffin, and the other from above. These were boiled separately in distilled water during four hours; the filtered liquids, when submitted to Marsh's apparatus gave negative results,

From the preceding experiments we were enabled to conclude:

- That arsenic existed in the remaining fourth part of the stomach, in the liquids contained in the viscera, and in the matters ejected.
- 2. That it also existed in the decoction made from various organs, but that the poison was most abundant in the solid matters remaining after the liquid had been separated.
- 3. In no other part could arsenic be detected. I may now mention, as a proof that the arsenic thus obtained did not exist in the re-agents employed, that they were the same employed by the chemists of Talle, with the exception of the nitre. These gentlemen, we know, were of opinion that arsenic did not result from their experiments; consequently, the re-agents must have been pure. I may further observe, that previous to the introduction of the suspected liquids, Marsh's apparatus

had been in action during twenty minutes without giving the slightest indication of arsenic. nitric acid we made use of, had been distilled upon nitrate of silver, and we know that, when thus prepared, it cannot contain arsenic. That the poison did not proceed from the soil was also quite eartain, for the coffin was not all injured; it only effered a slight crevice in the inferior part: moreover the earth, when analysed, was found to be quite free from ersenic.

Gentlemen, I shall terminate all 1 have to say upon arsenious acid, by resuming in a few words the methods of analysis, and the mode of treat-

ment adopted by myself.

Methods of loolysis resumed .- 1st Problem. 1. Collect the grains of arsenions acid existing in the ejected matter, or deposited upon the internal parts of the digestive canal and ascertain their haracter.

* 2. Boil separately, in distilled water, for four or five hours, the matter ejected and that contained in the digestive tube; taking care at the same time to well wash the digestive tube itself. Separate the insoluble matter by filtration, and evaporate the liquids to about one-fourth of their volume; then add a sufficient quantity of pure boiling alcohol, and filter again; acidnlate the filtered alcobolic liquids with hydrochloric acid and add sulphuretted by drogen; collect the arsenical sulphuret thus formed, and submit it to further examination.

Carbonize, with nitric acid, the solid matters remaining on the filters, and submit the decoction of the charcoal to the action of Marsh's apparatus.

2. If neither of these operations have afforded arsenic, the stomach and intestines must be examined by boiling them for six hours in distilled water; the filtered decoction must then be evaporated and treated by alcohol and sulphuretted hydrogen, as before. If no arsenic is detected in this case, the stomach and intestines must be carbonized by nitric acid, and the residue examined.

Second Problem .- Carbonize with nitric acid, one half of the dried liver, and boil the charcoal produced for half an hour in distilled water; then test the filtered decortion in Marsh's apparatus. If from this operation a sufficient quantity of arsenic is obtained to remove all doubts respecting the presence of this poison, further proceedings are

If the result is again negative or not sufficiently satisfactory, boil the remaining portion of the liver for six hours in distilled water with the spleen, the lungs and the heart, and operate upon the decoction as before. If no arsenic is obtained, earbonise the insoluble parts of these viscera, by nitric acid.

In all cases when fatty matters are to be carbonized, nitrate of potash should be used, as in such cases nitric acid would produce a bituminous charcoal attended with great inconvenience.

Orfild's Mode of Treatment resumed .- First stage Administer one ounce of dried hydrated peroxide of iron well triturated with five or six ounces of topid water; if after a short time the patient vomits a part, or the whole of the antidote, a similar dose must be again administered; should vomiting not occur, it must be promoted by giving two grains of tartar emetic in live or six ounces of tepid water,

Second stage: Promote purging by administering two ounces of easter oil, and repeated "lavements;" especially, if vomiting does not occur very soon; at the same time repeat the dose of peroxide of iron.

It is quite an erroneous idea to suppose the administration of tartar emetic is attended with bad effects; the irritation produced by the evacuations is too slight to prevent the use of this valuable remedy in such cases,

Third stage: After abundant purging and vomiting, it is necessary to have recourse to dimeties for the purpose of expelling, with the urine, the greater part of the arsenious acid absorbed. The directic'l recommend is a solution of five drachms of nitrate of potash in 8 ounces of white wine, and and twenty onness of can de seltz. It from this period symptoms of reaction occur, attended with fever, bleeding should be effected either by the lancet or leeches; but bleeding should never be effected in the first periods, for fear of promoting the absorption of the poison,

MESMERISM.

To the Editor of the ' Medical Times.'

Sir, -As in spite of contemporary demunciation you have from time to time given place in your valuable journal to various cases of mesmerism, detailed by Dr. Elliotson, Mr. Atkinson, and others; perhaps you will make room for the following paragraph, from the Januaica Despach of the 20th August :-

A mesmeric experiment was made at the private residence of a gentleman of this city on Thursday last, at which several physicians and gentlemen of high respectability were present. and which, we are informed by a gentleman who witnessed it, was in every respect successful. The patient, a lady, was put into the magnetic sleep by Professor Garrison; and while in this state, the painful surgical operation of removing a large excrescence from the upper eye-lid, or brow, was performed by Dr. Arnold, assisted by two other physicians, without the movement of a muscle on the part of the patient, or the least sign of pain. patient had long desired the operation to be performed, but had not possessed the fortifude to submit to it, and she was in atterignorance of the design of the physicians to remove the excresence on this occasion, and knew nothing of it until the whole had been done and the wound dressed, and she had been awakened from her sleen; indeed, we are told, that while the wound was being dressed Professor Garrison willed her to sing a favourite air, which she immediately did."

From the high moral and intellectual character of the editor of that paper, you may place implicit reliance on the statement, though I very much regret that one or two of the names of "gentlemen of high respectability," together with those of "the several physicians," who are said to have been present, have not been given. It is possible that this report may have appeared in other Kingston papers, particularly in that very talented journal, the Royal Gazette and Jamaica Standard. But, as I do not see the Jamaica papers regularly now, I am unable to send you any other account of the operation than that contained in the paragraph above. Had the names either of Drs. Fergusson, or Magrath, or Spalding, or Chamberlayne, or Garicia, or Morales, or Adolphus, and last, not least, of the very learned, experienced and estimable Bancroft, the present Inspector General of Hospitals in Jamaica, been appended, such a proceeding would have stamped a medical authority upon the case, which $\hat{\mathbf{I}}$ am content to take ou/y on the authority of the editor of the Januarea Despatch; "Professor" Garrison being unknown, and the operator known to me.

I am, Sir, Your obedient Servant, E. BINNS, M.D.

REMARKABLE CASE OF ASCITES. - A WOman, aged 36, was attacked in 1923, by a chronic entero mesenteritis, accompanied by marasmus, suppression of arine, and irregular menstruation. By degrees the abdomen be came of enormous size, from the presence of thiid accumulated in the eavity of the peritoneum. The first tapping gave issue to twenty pounds of a lemon-coloured limpid fluid; and M. Lecanus ascertained, after the sinking of the abdomen, that it contained enormous indurations. Ten days afterwards she was again tapped, and so rapidly did the fluid accumulate, that it was necessary to repeat the operation every six, eight, ten, or at the atmost twelve days. Fifteen years had elapsed in this affections, when the brought are choked with

manner, and tapping had been performed 810 times, when Dr. Lecanus thought of trying compression on the abdomen with pieces of paste-hoard covered with linen. This remedy, employed gradually, at first retarded the acenmulation of the fluid; and at the end of six months, during which time tapping was practised at more or less distant intervals, it was perceived that the ascites no longer returned. The patient has now been completely enred these two years, having undergone tapping 866 times during 15 at 16 years. Once only the epigastric artery was opened; but the hæmorrhage was promptly stopped by tents steeped in a styptic liquid, and introduced into the wound made by the treear.

DISEASES THAT NEVER CO-EXIST.—The typhus abdominalis (that is, with formation of of the characteristic typhous matter, is excluded by the various forms of puerperal fever. In two hundred dissections of pherperal fever he did not find one complication of the typhous process. This immunity from typhus is given by the pregnant, child-bed, and even, though in a less degree, by suckling.-Typhus and cholera, and typhus and dysentery, are said to have the power of mutual exclusion; and the co-existence of tuberenlous disease and typhus is extremely rare. Carcinoma and tuherenlosis (i.e., taberenlous disease) are antagonist diseases; and the latter, and all kinds of serons cysts, are never met with simultaneonsly in the same organ, or even in the same person. Tubercular disease affords an immunity from cholera, dysentery, hypertrophy of the heart, curvature of the spine, dilated bronchia, and almost all chronic diseases of the stomach. Tuberculosis and ancurism do not co-exist, and Rokitansky, as well as others, has remarked, that the development of tubercle is arrested, although the disease is not subdued, by the pregnant state, as likewise by all large tumours of the abdomen. These conclusions are derived by Professor Rokitansky from numerous post-mortem and other examinations.

SCHIRRUS OF THE UTERLS CURED BY THE EXTERNAL AND INTERNAL EXHIBITION OF loning.-By Dr. Zimmermann.-A lady, aged 45 years, was affected about a year ago, with a schirrons induration of the cervix uteri, to which was added a hectic fever. Dr. Zimmerman, who was called in to attend her, prescribed for her the following mixture: —B lodde of potassium, 1.0 grammes; lodine, 0.4 grammes; Distilled water, 30.0 grammes; M. and dissolve. She commenced by taking eight drops, three times a day; then the dose was gradually increased, and with great caution, until it amounted to fifteen or eighteen drops. At the same time, the physician ordered the topical employment of the following ointment: - B Lard, 30 grammes; Indide of potassium, 2 grammes; Volatile oil of rosemary, 6 drops; M. S. A. This ointment was applied three times a day; sometimes to the perineum, sometimes to the inguinal regions, and sometimes, but with the greatest circumspection, to the schirrous part of the cervix nteri; in the latter case, a little while after the application had been made, mucilaginous narcotic injections were made into the vagina. After four months of this treatment, sustained without any interruption, the patient was completely cured.

POWDER OF CAMPHOR AND ANTIMONY. R Powdered camphor, 2 grammes; Powdered ipecacuanha, 65 centigrms; Golden sulphur of antimony, 65 centigrms; White sugar, 24 grammes; M and F. S. A. a perfectly homogeneous powder; divide into 1: doses. This formula is due to Dr. Mursimus; it is employed with marked advantage in cases of asthenie pneumonia, in chronic pulmonary catarrhal a large quantity of thick and viscid mucus, the expectoration of which is very difficult. One dose is taken every two hours, either by mixing it with a small quantity of an appropriate liquid, or by enclosing it in a piece of unleavened bread, slightly moistened with water,

PHLORIDZINE, A NEW MEDICINE.-Phloridzine is a new medicine, which is now very highly spoken of by French practitioners, as a useful adjunct to einchona preparations, and has been used for some years in Germany, Poland, and France. It is extracted from the bark of the roots of the apple and wild cherry trees, and is thus prepared :- The bark of the recent roots is boiled with water sufficient to cover them, for half an hour. This is poured off, and the same quantity is again used; these two fluids are mixed together, and at the end of 6 hours they deposit the phloridzine, in the form of a deep red velvety-looking matter. M. Lebandy, editor of the Journal de Connaissances Medico-Chirurgicales, says, "Its efficiency is so decided, that we cannot hesitate to class it with the most powerful febrifuges; and it has this advantage over quinine, that it never induces gastralgia."

PRESERVATION OF NITRATE OF SILVER. Coat the caustic with engraver's scaling-wax, which contains a large quantity of shellac, This wax adheres well, and forms a strong and smooth varnish, as it were, which remains unaffected by the atmosphere. Thus protected the nitrate no longer stains the fingers, injures the caustic case, nor is in any way changed by the moisture in the air; it possesses a greater degree of solidity, and at the same time the process is of exceeding service in practice, inasmuch as when wanted for use, a small part only of the caustic need be uncovered by means of a penknife, so that its application can be restricted to the part where it is required. This is of peculiar utility in ulceration of the throat, aplithae, fissures, &c.

KING'S COLLEGE MEDICAL AND SCIEN-TIPIC Society.-This Society resumed its weekly meetings, on Thursday evening, Oct. 13th, at 6 o'clock, Dr. Budd in the chair.

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Annal 20, 1842.

April 20, 1842.

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richs and speculations, and teems with interest independently of its express purpose. The True Tablet, Sept. 24th, 1842.

"No wonder in the heavens above, or the earth beneath, or the waters under the earth—certainly none in past histories secon to have past the observation of the vidual teye of the aution, or the disconcing of his industrious pen. The compact of that wayward deity sleep—at will now without narcoth's, the theory of sleep, the nature of dreams, with the record of all of those of most starting interest,—someoning, with are miscretis—with a nature of dreams, which the record of all of those of most starting interest,—someoning, with at miscretis—swoons, trances, applyxia, with all their miscretis morning hydrological phenomena, apparitions, haltmentations, and monominia, with all their datastic tricks as recorded of the grounding starting the starting of the starting

"The Editor of the Med. Gaz." (Oct. 14) devoles a leading of the consideration of "The annusing work of Dr. Blans," and "trant facts and theories brought torward by lam."

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as it presents another sitone evalence of its remodul power is sulfane from portead experience.

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EDICAL

A Journal of English and Foreign Medicine and Medical Affairs.

No. 162. Vot. VII.

SUMMARY.

LONDON, SATURDAY, OCTOBER 29, 1812.

PRICE FOURPENCE.

To the convenience of Subscribers in remote places, the Weekly Numbers are reasond in Monthly Parts, stacked in a Weighers, and lorger dead with the Magazines. Order for the Stringed Edition [Institute per Holt your, Post free in advance, are received by any Bookseller or Newsman, or may be directed to J. V. Cartine, Feq., at the Medical Times Office, (late I meet Office), London CASES OF PERITONEAL SECTION

	ON	to a serious, if not fatal, termination; the rules prescribed therefore, were not in the least							
Clairvoyance 771 Experiments in Mesmerism 772 By Johnston on Epidemie Exyspelas 773 On the Secale Cornutum, by Dr. Clay 773 On the Secale Cornutum, by Dr. Clay 773 On R Leadors—Driston of Labors—Admission to the College of Surgeons 774 Let tures on the Anatomy and Physiology of the Nervous System, by Professor Owen, F.R.S., &v. 775 Case of Gim Shot Wound, by W. Crinkshanks, Esq. 776 Extracts from Poreign Journals 776 Periscope of the Week 777 Was av	errations.— ess of the my most s vare, even hat the slig	THOM ST REATED. cuber of the B of Sugrous, I to No. The ubilly, dimed from par The rapid case hithe anguine ex in this adv	ear College of Industry and I Windowster. (62.) I and safferto, more to pectations, anced stage	Physicians, centres in startory still, I of the	abated eithe continued t of the day n In giving th the result of items respec- ing, cough, first (though	r to the pa o see her fi p to the fon e last table shall not every day ting the the and tlatus estill used)y the other t	refuently requently recently of record ex in each e remometer, s, will be vas not imp	in the least ttendants. I in the course ter operation, stoms and atery visit, but olumn. The pain, vonit-omitted, the partively negatively repartively research	
GENERAL REMARKS.	Sleep	M tions	Urine	Thirst	Tongue	Surfa.			
Former diet continued rigidly—Gave half a grain muramo rphine at bed-time.	73 hours.	Two.	91 Ži	Little.	Clean.	Molst Molsc	90,95,86. Soft.	Верт. 18, 5 г.м.	
Complains of hunger - Allowed coffee for the first time, as a change, with former diet.	2 hours.	Oue.	9 <u>1</u> ×	lide	Clean.	Modes and warm	85.46.41	Sept. 19, 5 p. 23	
Much refreshed by sleep—Wants more tasty things to eat—same diet rigidly enforced.	10 hours.	One	Sviji Sviji	None.	Clear.	ond warm.	50.40.73.75.	Sept. 20, 5 г.м.	
Dressed the wound, which looked very healthy—removed four of the stitches—the ligatures tried, but firm	š kours.	None.	21. 21. 21.	N. ne.	Clean.	Miss	76.7675	Sept. 21, 5 P.M.	
She feels so well, that it is with difficulty she is kept to her usual dietpromised a change to-morrow.	7 hours.	None.	5 vii). 5 vi	None.	Clean.	Maix: and warm	7070.74	Sept. 22, 5 p.m.	
Dressed the wound—all the stitches removed—ligatures not yet come away—ordered Ol. Ric. 5ss., which operated very soon—ordered a mutton-chop, with bread, twice in the day.	75 hours.	Three.	āvii. āvi	N ine.	Clem.	Mods: Modst andwarm andwarm	- G	Sept. 23, 5 P.M.	
Complained of the chop being a small one—Felt very well—sleeps sound—ordered half-sitting posture, occasionally, for change.	liours.	O _L a.	51. 51. 51.	None.	Chan, Clean	Maist and and	& 2. 2.	Sept. 24, 5 P.M.	
Feels better in health than she has done for two years—sallowness left her countenance—dressed the wound—ligature still retained—animal-food twice in the day.	All night.	Nane.	51	None		Maist and warm.	5.	Sept. 25, 5 P.M	
No restriction as to dietsits up in bed.	All night.	Ones	5.4.	None.	Cl an	Molse and warm.	70.75.	Sept. 26. 5, 11 M.	
Continues well—greater part of the dressings dispensed with—one ligature yet to come away.	hours.	Оле.	7: N. E.	None,	Clean,	Moist and warm.	74.76	Sept. 27, 5 P.M.	
Got up, and remained up several hours—improves in strength daily.	night	N me.	On N.	X _{01.1}	Clean.	Moist and warm.	75.76.	Sept. 28, 5, P.M.	
Sat up all day-wound required but little dressing.	All night.	None.	On S	None	Clean.	Maist and warm.	-0.25	Sept. 29. 5 p.m.	
Joined the family down stairs to-day—may be considered well.	Hi, hi	Nane.	241.	M	. Clwan.	Mais:	15	Sept. 30. 5 P.M.	
Continues well—dressings almost dispensed with.	Nearly all night.	Two.	Sur Š	N.E.	Cl	M dist	70.76.	Oct. 1st, 5 p.m.	
Continues well—appetite good—takes a little exerci e.	might	Oue	5 Kr III	¥ .:	CL sp.	Warm and moist.		Oct. 2nd, 5 p.m.	
My patient now having resumed her household duties, and being quite well, any further notice of the case is unnecessary, although I visited her occasionally.	I E.	One.	5/4 8 2	None.	Ne-	Na- tural	zn.70.	Oet. 3rd, 5-г.м.	

GENERAL OBSERVATIONS. Thus terminated successfully, not only this cold about the 21st of September, an artificial formidable operation, but its subsequent treat- temperature must have been substituted, which ment; a more satisfactory issue could not have been anticipated by any person who witnessed it; the simplicity of the treatment throughout was remarkable; procuring evacuations of faces and urine, when it was thought the parts were overloaded; and a few hours sleep third day after the operation, flatus became occasionally, when the case appeared to require it, were the only means put in practice; as little medicine as possible was exhibited for evacuations from the bowels; clysters were preferred to any purgative, and emptying the bladder, until natural efforts were able to accomplish the same. In procuring sleep, common opiates were avoided, in consequence of their tendency to constipation. The tinet byosey., and the mur, morphine, given in most rigid principles were adopted as to diet, combination had the best effect, but even those were given as seldom as possible. I am of opinion that nature is capable of effecting which more than she obtains credit for; and the less we interfere with her the better. I am the more convinced of this, by the plans of treatment adopted by others, particularly in the minor operation (as proposed by Mr. Jeffreson) in the case treated by Mr. Phillips reported in the "Medical Gazette," vol. 1, six days, and up to the twelfth day, only boiled 1840-1, page 83, and which, in my opinion. was far too complicated. It will also be observed that I did not exhibit a brisk cathartic before the operation, as recommended by Mr. Lizars. I dissented from this plan, simply because I considered the operation of cathartics as producing a degree of irritation which I felt wishful to avoid: I therefore substituted the inspissated ox-gall, which extensive experience has pointed out to me as an excellent solvent of the facul matter of the intestinal canal; and by the solution, its propulsion is facilitated without producing the slightest icritation. This remedy appears also to have a peculiar effect of ridding the intestines of flatns, a matter of great consequence in such an operation, and it was in this case, remarked by many medical gentlem n present, how void of flatus the inrestines were; by which the operation was very much facilitated. In applying more interrupted sutures than Mr. Lizars, I merely adopted a hint thrown out by that excellent operator, that it was better to have plenty than too few; which, with the presaution of marking the parietes, as before stated, rendered eversion of any part of the lacised wound impossible. Why the incision should not pass directly through the umbiliens may be asked with propriety? My own opinion is, and pro-hably it was the opinion of Mr. Lizars, that the wound would be less inclined to heal (if through the umbilieus); in the case just related the last part to heal, with the exception of where the ligatures passed outwards, was in the vicinity of the umbilious. In all operations of this kind however, I should keep trictly to the linea alba except at the umbilious, which I would leave to the right or left about half-aninch, coming to the linea alba again as soon as possible. So long as the dressings continue in good condition, there ought to be no harry in removing them. In this case, the fifth day had concluded before the first drestings were taken off and then with great contion, lest the patient might take cold; it is therefore necessary the temperature of the room should be attended to, at the time, as well as in subsequent dressings, as there is consil rable exposure. On examining the tumour after its extirpation, the portion lying in the pelvic cavity was in a state of idecration, it was there-

so satisfactory, and as the weather began to be clusion has been drawn too hastily; the number might not have been so easily manageable, particularly as the operation was performed in a small cottage room, where the least inattention might produce a great alteration in the temperature. On the morning of the troublesome for the first time, which was effectually removed by the introduction of an elastic gum tube a few inches up the rectum; a plan-I should earnestly recommend as effectual without producing any irritation. In expelling the flatus, as well as the clysters, considerable assistance was given by a sixtailed bandage crossed over the abdomen, imitating the action of the abdominal muscles. The and on this, I consider, much of the credit of the cure depended. I was of opinion that in such cases the principle of stimulants, whether as medicine or diet was injurious; I therefore adopted the simplest matters for food and drink I could think of. Boiled bread, bread out of toast water, toast water, gum mueilage, thin arrow root, gruel, and German rusks softened in ton t water were rigidly enforced for the first rice, a little milk added to the arrow root, and a little weak ten were added; so that my patient complained more of being starved than otherwise. When I look back at the many circum-tances which might be deemed unfavourable to the case here recorded, I am the more convinced of the propriety of this operation in preference to the minor one proposed by Mr. Jeffreson. My patient was old, the period of cessation of menstrual discharge, with its many bad consequences (though it had not taken place) might reasonably be expected to interfere with the cure; adhesions existed; the tumour was large, the pressure had produced ascites, alceration had commenced in the pelvic mass; there was one large cyst combined with six or seven smaller ones; the cysts were also combined with nearly seven pounds of a consolidated mass of cartilaginous and fibrous texture; and lastly, my patient was worn down by long disease, emaciated, and distressed in spirit, before relief was proposed by an operation. In these symptoms there are some points so decidedly opposed to the mode of operation as proposed by Mr. Jeaffreson, that I cannot avoid drawing a comparison. If it were positively certain, that the ovarian tumour was composed of only one, two, or even three cysts, provided they could be defined, and punictured, if it were equally certain that no adhesions existed beyond the pedicle, and if we could be assured no part of the tumour was consolidated, then I should say that the minor operation of Mr. Jeaffreson would be the only justifiable one, but if any one of these objections exist. I am decidedly of opinion that we had better let the patient alone fatality shown by the results of those operations in almost every person's hands, with the exception of Mr. Jeaffreson, and once by Mr. King, fully justify the remarks I have just made upon-It would be disticult to puncture more than one cyst, it would be impossible to draw the cy+t through a small opening if adhesions existed, without doing irreparable mischief; it would be equally impossible to extract, through a small opening impunctured smaller eyets, or a portion of consolidated tumour. The question then is, are these objectionable points frequent? Mr. Phillips says, "That more than dread in nerking openings into the abdominal one cyst may exist in the sum tumour at the easity; but time and a few more successful

of cases of punctured ovarian cysts, is too few to warrant to general a conclusion: the case I have here reported is contradictory to this view, Two of the cases of Mr. Lizars hal more than one eyst, and from specimens of post-mortem extraction of diseased ovaria, I believe, the fact of more cysts than one in the same tumour, to be more common than Mr. Phillips supposes. I think he would have been more correct in stating, that generally there is one very large cyst, and more or less smaller ones. Again Mr. Phillips observes, "The coexistence of a solid tumour and a large cyst, I do not demy that it may happen, but I do maintain it to be a rare everption. In my case the solid part of the tumour was equal in weight to the saculated part with its contents. I have a post-mortem specimen where the solid part is equal to the sac, Some of Dr. Macdowal's cases of Kentucky, as well as Mr. Lizar's I believe possessed similar features. Lastly, Mr. Phillips asserts. " That adhesions are frequent." On the contrary, Dr. Seymour in his excellent work states, that adhesions exist in ninety-nine cases out of the hundred; both assertions, perhaps, are too much in the extreme; but one more moderate might have been made that adhesions very commonly exist; I have never vet seen a case entirely free from them. Now let the reader suppose a case of more saes or cysts than one or two, or of one with a large consolidated mass with or without cyst, or one with adhesions, though not extensive and then let him imagine himself employed in bringing this tumified mass away by dragging it through a small opening of one and a half or two inches. I certainly should not envy his position, the tearing asunder these adhesions, the dithoulty of puncturing a number of cysts, the tearing and enlarging the outward incision by the force required, and lastly, the impossibility of bringing such a mass through so small a space; all of these, or any one of them existing, or the bare possibility that such might exist, is sufficient to condemn the mode of extraction by small incision; and how are we to know that these do not exist? Every person who has paid attention to the subject, knows how very obscure the symptoms of ovarian disease often are, and how very difficult it is to form a correct diagnosis as to the particular state of the tumour; adhesions have been found where none were anticipated, and they have been absent when confidently expected. It is often difficult to say to which side the pedicle is attached, equally ditticult to say if the tunour contains one or more eysts. and impossible to tell if any part of the tumour he consolidated or not. By the large incision, whatever difficulty presents itself, we are prepared for it; it matters not which side the pedicle may be, there is plenty of room for cutting as under the adhesions, however numerous, the whole in see may be removed entire without puncturing the cysts, thus avoiding the disagreable circumstance of the fluid of the eyst escaping into the abdominal cavity; perhaps, one great cause of death in the minor operation and lastly, we have now abundant proof that peritone il inflammation is not a whit more excited by a hold opening, than by a smaller one. It must also be home in mind that the tearing away of the adhesions, unless very recent mes, is entirely avoided by the operation of the large incision.

The principal opposition to the large incision, as practiced by myself, Mr. Lizars, and Dr. Macdowal, consists of prejudice, and too much fore fortunate the operation took place, had it same cannot be denied; but although it may cases will soon overcome both the prejudice been delayed the result might not have been be it is rarely the case." I on afraid this constant and reluctance of surgeons on this subject, and if I am not mistaken, a new era is opening upon us, as to operations on the abdominal and pelvic viscera, One thing is certain, we ean make an opening of any extent, and explore the viscera without any more danger of inflammation than wight follow the most trifling puncture of the peritoneum. For myself, I feel I should be justified in making extensive incisions into the abdominal cavity, for other objects than the one here related. I would ask what should prevent the spleen from being extirpated when diseased? Or fatty tumours of the omentum? Or tumours of the fundus uteri? In fact, what has been done, is enough to enable me to declare the large ineision operation for extirpating the diseased ovaria, u perfectly legitimate operation; more successful than the one proposed as its substiinte, and, that ere long, operations will be performed on the abdominal regions, hitherto unknown in operative surgery, and with safer results than heretofore. The celebrated Lizars says, " On considering the unture of serous membranes, it appears, they are less prone to beflammation than cellular tissues which are more confined, or skut up. The echulation, which is perpetually going on, seems to moderate action, which is strikingly illustrated by denisy of the tunica vaginalis testis, where the greatest diffientty is experienced by the surgeon in producing inflammation sufficient for adhesion."

After operations of this nature, the danger is in the first twenty-four hours; first from hemorrhage from the secured vessels, and secondly, from peritoneal inflammation, which can easily be checked if bleeding be timely resorted to; but if neglected, death is almost certain. In my case, the pedicle was rather thick, and the only drawback attending this, is, that the ligature may not be sufficient to stop the bleeding of the vessels contained in it, for supplying the tumour, and thereby requiring ligatures on the vessels themselves. Dr. E. T. Seymour in his excellent work on the diseases of Ovaria, makes the following observations:—

"These considerations have led to the recommendation of a similar operation, when the disease of the organ has attained a size which leaves little other hope of relief by human art. It has recently been successfully performed several times on the Continent, and in our own country, by Mr. Lizars of Edinhurgh. Nevertheless, the arguments against such an operation are numerous and strong; and the probabilities of success are very small, If the immour be not large, and the woman's health unbroken, she may live many years, as long as is allotted to humanity in the enjoyment of a tolerable existence. If the health be much broken the cure of so large a wound in a weakened constitution would be difficult, if not in the great majority of cases, impossible. If connected with schirrus in other parts of the body, it is inadmissible; and if the growth it ell be of the nature of fungus hematodes, all experience tells us that should the operation be survived, or the wound heal, the disease will recur in other vital organs of the body. Nor do the difficulties rest here, when there growths enlarge to a great size, they most frequently adhere, and here the operation is out of the question. If all these exceptions then, are estimated, the case which remains in which such a risk i advisable, and such an operation feasible with any fair chance of a happy result, is rare indeed. Still the meed of praise cannot be withheld from those men who have dared, and been successful, '

In respect to the above observations, I need only observe, the operations already performed, their uniform success (I mean by large incision) shew the arguments against it are neither numerous, nor strong. In my case the tumour was

large, the health broken, and yet the cure of the wound was not difficult; in my case, adhesions existed, yet the patient did well. I cannot but refer particularly to the opinion of Dr. Seymour, in respect to the prospect of a "female enjoying a tolerable existence with unbroken health, and living an average life with a tumour of even moderate dimensions," in which i cannot entirely agree with him. In a great majority of cases, even when the tumour is small, the hopeless advice they have been in the habit hitherto of obtaining from medical men has rendered their lives often truly miserable, and in all cases far from being enviable. There are some eases recorded of simple tapping in ovarian dropsies, without attempting the removal of the cysts; some of these are remarkable for the quantity of fluid evacuated; one is mentioned by S. S. Brame, (see the first number of vol. vii, 'Menic ve Times,') in which was removed, at ten operations, the enormous quantity of 73 gallons and 5 pints of fluid. I am inclined to believe that there has not been sufficient di finction in many of these cases, as to whether these great quantities of fluid are really obtained from cysts, or from the abdominal eavity it elf, in the character of ascites produced by the pressure of the tumour interrupting the proper functions of the abdominal and pelvie viscera. I do not say Mr. Brame's case was the true ascitic fluid, but I suspect many eases are recorded where the fluid is stated as from an ovarian cyst, which is really taken from the abdominal cavity, independent of the sae of an ovarian tumour. There is a material difference between ovarian disease accompanied with weiter, and dropsy confined particularly to the sac of on oravian tomour. If the case be ascites, with or without ovarian disease, tapping is highly proper; but it is more questionable if tapping should be so geucrally resorted to in ovarian encysted dropsy, simply because it is only a very temporary relief, as long as the sae is still retained, and adhesions are more likely to occur where the tapping is effected from time to time, rendering operations for extirpation, by any mode, more serious and difficult. Whilst I was recording these remarks, a person applied to me with the abdomen distended with ascitic fluid; the whole features of the ease and the history of it, presented the character of ascites. I tapped her to the amount of twenty- nine pounds and a half of fluid, having the true ascitic character. When the whole was evacuated, I found a tumour on the left iliae region, about four pounds weight. I do not consider this case as ovarian dropsy, or that the water discharged was taken from an ovarian eyst, but that it was a case of ovarian disease, accompanied with ascites; the Litter produced by the interference of the fumour with the visceral functions. In the case of Mrs. Wheeler, (here detailed at length) between six and seven pounds of ascitic fluid presented itself from the same cause, but which had no connection with the ovarian mass of cysts, as the whole of them were afterwards removed entire. In respect to the connection of ascites with ovarian disease, Mr. Lizars remarks, "Again, diseased ovarium is frequently accompanied with ascites; so that in our treatment, when we are aware that there is ascites, and suspect a diseased ovarium, we should first perform paracentesis abdominis." I am inclined however, to differ in opinion with this celchrated surgeon, believing that peritoneal inflammation would be more likely to occur from the operation by incison and consequent exposure of the viscera, if paracentesis abdominis had been previously performed, because some excitement of inflammatory action would have occurred in healing the tap-

still, might the more easily be excited again. I think it therefore, suf r to perform the operation of extirpution at once, allowing the ascitic fluid to come away at the same time. In the case of paracentesis abdominis, which I have just mentioned. I certainly should not have performed that operation had I been politively certain of the existence of a fumour; but as neither the history of the case, nor pre ent examination, pointed out such a circumstance as probable, I acted accordingly. The ease of Mrs. Wheeler bears out the fact as already advanced by Mr. Lizars, that the most formidable adhesions to be met with in ovarian fumous. are omental; in this case, a vessel of moderate size was so connected with the tumour, as to require securing when cut asunder. The pediele, as I expected from the history of the cases of various authors, I found to be simply the broad ligament of the uterns, which with the f dlopian tube, were of considerable thickness. so much so, as to interfere with the centity of the vessels contained in it to supply the tunour, requiring them to be separately secured; this, future operators should carefully bear in mind. Mr. Lizars also recommends, if the long incision give not room sufficient for the tumour to be extirpated, to make a transverse incision. I presume he meess terrards that side where the pedicle is expected to be found. I am not prepared to say whether this be necessary, but am inclined to think that there is no tumour capable of being held within the parietes abdominis, but what might be extirpated through an incision from the ensiform cartilage to the

There is one circumstance that deserves particular notice, since it tends to show the great obscurity which often exists in ovarian disease; in three instances, operations have been performed on individuals supposed to be labouring under ovarian disease to a considerable extent; and yet, when the abdominal cavity has been opened, no tumour could be found; and this has happened in the hands of tirst-rate surgeons, and of great experience in ovarian diseases. One is recorded of Dr. Dohlhoff, a second by Mr. King, of Saxmundham, Suffolk, and a third by Mr. Lizars, who candidly observes, "The reason why all of us were deceived in this woman's case, was, the great obesity and distended fulness of the intestines, together with some protrusion public of the spine at the lumbar vertebras. This did not appear at all conspicuous before operating, otherwise it should, and must, have struck some of the medical gentlemen present who examined her; nor did it occur to myself during the operation, nor until some time after, when I could find no just cause for being so singularly deceived." Mr. King when not able to find the tumour after the incision, regrets that he did not raise his patient out of the horizontal position, as the tumour generally appeared in the standing or sitting posture before the operation.

Such circumstances tend to show how difficult it is to form a correct diagnosis. It does appear to me most singular that the circumstances to which Mr. Lizars attributed his being misled, were not fully and satisfactorily developed to him during the operation if they existed, for he says, "nor did if oven to myself during the operation, nor until some time after. A circumstance analogous to these, presented itself to me since the operation on Mrs. Wheeler. A female called upon me respecting a tumour which she said she had in the abdomen, and which she was very anxious to get extirpated, stating that she had been troubled with it for upwards of two years. When in a standing position, the abdomen appeared much

surface, but no tumour could I find; on expressing myself to that effect, she appeared disappointed, so determinedly had she made up her mind to have it extirpated. I then caused her to sit up and subsequently to stand; in both these latter positions, the belly became tumefied irregularly in the form of an arch, the apex of which was situate above the umbilious, whilst the origin and termination were in the iliae regions; on handling it, it disappeared (that is by pressing it). I looked upon this case as one of confined flatus, and not of tumour, though it is possible I may be deceived; but certainly no persuasion could induce me to operate for tumour, although my patient is still convinced there is a tumour, and presses me to remove it. In many cases of ovarian disease of long standing, the constitution suffers severely, and becomes so worn down, as to furnish plansible arguments against any attempt at extirpation. This, I am of opinion, has been carried too far; no person could scarcely present worse features in this respect than Mrs. Wheeler, and yet she recovered without a bad symptom. It is questionable if these depreciated constitutions. do not present less liability to peritoneal inflammation than others.

Looking at all the circumstances connected not only with the operation by large and small incision for diseased ovaria, but in all operations that have taken place in respect to the abdominal cavity, where the peritoneum has been ent, there is abundant evidence to prove that the peritoneum is not by any means so disposed to take on inflammatory action, as has been generally supposed; and this simple fact in itself, may create a great change in abdominal surgery. Hitherto extirpation of diseased ovaria by the large incision particularly, has been held as highly speculative and improper; but surely the results that can now be hewn, must at once and for ever, settle the question, and establish it as a perfectly legitimate and more than ordinarily successful capital operation, as I shall more distinctly prove at the conclusion of this paper (that is), if medical statistics are to be relied upon at all. When compared with the results of other capital operations, lithotomy, lithotrity, and even amputation, it stands in a far more favourable position, and it is a very strange prejudice indeed, that can admit those capital, and more frequently fatal operations, above mentioned w leg-t mate and advisable whilst one less fital is summarily condemned, and forborne to be mentioned in the instructions to the rising faculty. I think I have said enough to prove, that preference ought to be given to the operation by large incison for the extirpation of discused ovaria; the very great obscurity hanging over the many virenmstances connected with the immonrate only safely to be met, by the free incision; to to attempt the minor operation and meet with those features known to be trequent, must com-Pel the operator to re-ort to the large incision, under the untavourable circumstances of a partly emptied tumour, thiid escaped into the abdominal cavity, and adhesions lacerated; or the dreadful afternative, death to the patient without an attempt to relieve.

It is to be hoped that the prejudice hitherto existing against this rare and formidable, but successful operation, will cause; and that it will in future be classed where its medits have proved it to be worthy.

Inserciors are of Anyromy. The dismiss at of Dr. Somerville has been followed by the appointment of Dr. A. Wood, as in spector of England, and Mosers. Bigot and Rutherford Aleoch, as inspectors of England and Wides We were in taken, with reference to the appointment of the Arguman and Condence of the Appointment.

APPENDIX

7.11

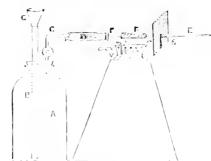
ORFILA'S LECTURES ON ARSENIC.

Collected and Translated by JOHN DAL PLAZ, Pharaction and

Conclusions of the Report of the Academy of Sciences, referring to the Poisoning by Arsenions And. Commissaries: Mesors, Themard, Ponssingault; and M. Remand, reporter.—1. Marsh's method can easily detect one millionth part of arsenions acid existing in a liquid: arsenical stains may even begin to appear when a liquid contains no more than a two millionth part.

- 2. The stains are not rendered more evident by a large quantity of liquid than by using a small quantity; it being understood of course, the same quantity of arsenions acid to exist in each; but in the first case the same amount of stains is produced after a greater length of time than would be required by using the more concentrated of the two solutions. Thereby results the advantage in concentrating the arsenical liquid; as by operating upon a small volume, stain of a more substantial character may be obtained.
- 3. It is of the highest importance, when using Marsh's apparatus for the purpose of detecting arsenic, to force the gas through a tube filled with ashestics or cotton, which is necessary to retain the minute portions of the zine solution always carried mechanically away by the current of gas; otherwise the operator may subject himself to error, as in this case there may be produced stains of oxisulphuret of zine which have often a resemblance to those of arsenic.
- 4. The procedure of Mon icur Lassaigne is capuble of producing good results. This consists in passing the ar-entretted hydrogen through a perfeetly neutral solution of nitrate of silver, and again decomposing the liquid by eldorhydric acidthen filtered, evaporated to dryness and the residue to ted as for arsenic. This same procedure is also very convenient, by enabling us to introduce into a small quantity of liquid a minute portion of ar a nic existing is a large quantity of fluid, which cannot he concentrated by evaporation, thereby enabling the operator to obtain much better characterized stains by introducing the liquor into a very small apparentus. One must be careful not to conclude that ar enic exi is in the liquid because the solution of nitrate of silver happens to become turbid, and produces a scaliment during the passage of the gas. Similar results may be produced by nonar entaretted gases mixed with hydrogen, or even by pure hydrogen alone, under the influence of
- A solution of chlorine or of an alkaline chloride may be sub-tituted for that of nitrate of liver.
- 5. The method of disposing the apporatic, as indicated by Messes, Berzelius and Liebig, and usefully modified by Messes, Kappelin and Kympmann of Column, will render sensible such minute quantities of ar cuic as are not manifed, or only doubtfully so, by the ordinery method of staints such a disposition of apparents has all other advantage of condensing more completely the archie, but it will often happen that this metal will be found mixed with a portion of alphors to far enic which may after its colour; particularly if the archieal substance exists only in minute quantity.

Your commissives have given the preference to this last disposition for a dating presentes they think the apparatus is best disposed as follows:



t is a wide-mouthed glass vessel having a bung, pierced with two holes; through one of these passes a straight glass tube, a, about one centimeter half an inch) in diameter, and reaching to the bottom of the vessel; through the other hole passes the tube c, of small diameter and bent to form a right angle. This last tube terminates in a larger one, p, filled with asbestus and about three decimeters long (11 inches): a tube, E.E., of the least fusible glass, and about two or three millimeters (I millimeter is equal to one twenty-fourth part of an inch) in diameter, is fixed to the extremity of the asbestus tube and terminates at its furthest extremity in a very fine point similar to that of a blowpape. This tube, which should be several decimeters in length, has a ribbon of sheet copper, r, coiled about the part near the asbestus tube. This sheet copper should not extend to more than one decimeter.

The glass vessel is selected of such a size as to contain all the liquid to be examined, leaving, at the same time, an empty space equal to about one-fifth of its total capacity. Nevertheless, it should be born in mind, that the volume of the liquid should not be too considerable, if it contains only traces of arsenical matter.

The tube through which the gas escapes from the vessel has its vertical extremity a little flattened, and upon any part of its outer vertical branch a ball, O, is blown; this last arrangement is not indispensable, it is however convenient, as it this case nearly all the liquid carried into the tube by the current of gas, becomes condensed and falls back again into the vessel.

The apparatus being thus disposed, a few strips of zinc are introduced into the bottle with a sufficient quantity of distilled water to cover the bottom of the safety tube, B; a small quantity of sulphuric acid is then added. Hydrogen begins immediately to form, which is allowed to pass for some time before the arsenical liquor is introduced; this is for the purpose of clearing the vessel of atmospheric air.

atmospheric air.

The part of the tube which is surrounded with the copper foil is then made hot by means of incandescent charcoal placed upon a chafingdish V; a small screen S is so adapted as to prevent the tube being heated at too great a distance. The suspected liquor is then introduced into the apparatus through a funnel G having a small termination, in such a manner that the liquor may slide down the side of the safety tube—thereby preventing the admission of atmospheric air. If the escape of gas is not sufficiently rapid, it may be easily increased by adding a little more sulphuric acid through the safety tube; the operation should proceed slowly and with all possible regularity.

If the gas contain arsenie, this will be deposited in the form of a ring, a little in advance of the heated part of the tube. The gas escaping through the capillary extremity of this same tube may be inflamed, and stains collected upon a porcelain sancer. In fact arsenical stains may always be obtained in this manner, when the heat is applied to a sufficiently extended part of the tube, or when this is not of too large a diameter. This tube may also be curved in such a manner as to admit of its being immersed into a neutral solution of nitrate of silver; thereby condensing the last portions of arsenic.

Metallic arsenic being once deposited in the tube, it is then easy to ascertain all the physical and chemical properties which belong to that substance.

Ist. Its volatility, 2dly. Its transformation into a white sublimable powder (arcenious acid) when heated in a glass tube open at both ends and held in an inclined position.

3dly. By heating a little nitric acid, or can regale in the tube, the arsenic will be converted into a compound very soluble in water (arsenic acid;) the obtain exaporated to drynes in a small porcelain capsule will, by the addition of a few drops of a concentrated solution of nitrate of silver, produce a precipitate of a brick-red colour.

Ithly. After being subjected to all these proofs, the metallic arsenic may again be isolated. To effect this, it is necessary to add a small quantity of black flux to the brick-red precipitate con-

tained in the capsule, and evaporate the mixture to dryness. This dry compound is then to be introduced into a glass tithe closed at one end and drawn to a small orifice at the other. The mixture is then made to fall to the bottom of the broad extremity by gently shaking the tube, and is there subjected to a red heat.

The arsenic (bus reduced to its metallic state becomes volatilized and condensed in the narrow orifice, forming a ring which presents all the physical properties of arsenic, even when there exists only a minute quantity of that substance.

It is easy to find in commerce, zine and sulphuric acid not susceptible of yielding arsenic by Marsh's apparatus, even when a considerable quantity of zine is dissolved. The sulphuric acid we made u c of, had been purified by distillation and the zine was in very thin sheets.

In all eases it is absolutely that necessary the operator should carefully test all the substances he is likely to use in his researches; we even think preliminary experiments, or analysis, do not warrant a sufficient guarantee; but that it is necessary the operator should make blank experiments, immediately after his examination of the poisonous compound, undring use of the same tests and in the same proportions as were used in the real operation.— Therefore if the substances have been carbonised by means of sulphuric and nitric acids it will be necessary to evaporate in a similar apparatus the same quantities of these acids as were used in the real operation; afterwards to add to the residue the same bulk of water; in fact to repeat with the tests only, all the operations he may have previously effected in the real examination.

7. The mode of carbonising animal substances by means of nitric acid, or nitrate of potash may be complete; but it sometimes happens one can not prevent a violent dellagration, which often takes place towards the end of the operation, attended in all probability with the loss of a certain

portion of the combined arsenic.

The carbonisation by sulphuric acid, and afterwards submitting the residue to the action of nitric acid, or can rigale, seems to us the most preferable method in many respects. The mode of proceeding given by Messrs, Danger and Flandin requires a much smaller quantity of reagent and the experiment is always without difficulty, when properly undertaken.

The results of our experiments lead us to conclude, that this mode of proceeding is attended with the loss of only a very minute portion of arsenic; one may prevent all chances of loss by carbonising the matter in a glass retort provided

with its recipient.

8. It is of the highest importance that the earbonisation of the organic substance should be complete, without which not only is there obtained a lequor producing froth in the apparatus, but this liquor may produce stains presenting often a great resemblance to those of arsenic. The stains observed for the first time by M. Orfila and called by him "Tacbes de Casse" are often abundantly produced in cases when the organic matter has been imperfectly carbonised. These stains arising from the decomposition of carburetted gases are readily distinguished from those of arsenic by their chemical reaction; serious mistakes might, however, occur if the operator regarded only their physical clearacters.

 All the experiments we have made to discover the arsenic which is said to exist in the human body in the normal state, have been attended with negative results.

40. The commission resuming the instructions contained in this report concur in the belief that for the wants of all medico-legal researches, the process by Marsh's apparatus, attended with all the precautions stated, will be quite satisfactory, especially as the quantity of arsenic to be brought in evidence is almost always superior to that which the sensibility of this apparatus can with certainty detect; it being understood at the same letter till he succeeded. Without giving him any notice, I then mentally desired him to get up and sit in a chair by his side, but a little further back. He seemed very much agitated, and desired to be awoke, but 1 did not comply, and still continued my will. He then got up, approached me, went back again, and I thought was going to take the chair I desired, but fell again into his former one; he pushed it back, however and made it occupy the space occupied by the chair I wished him to fill. I thought this pretty

the tube is not in sufficient quantity to admit of its being chemically examined.

We may add that in the greater number of cases of poisoning, the examination of the matter ejected, or of that which remains in the intestinal canal, will be sufficient to convince the operator of the presence of arsenic and that it will only be necessary to have recourse to the earbonisation of the organs when the first experiments have been insuccessful, or in those cases (which are very rare) when presumed circumstances of poisoning seem to render it requisite.

Your commission, taking into consideration the importance of the question and the efforts which Messes. Danger and Flandin bave made to clucidate the use of Marsh's apparatus, beg to present them the united thanks of he academy.

Your commission think he neademy is also indebted to Messrs. Lattaigne, Keppelin and Kampmann for their useful modifications in the mode of proceeding by Marsh's apparatus.

(To be collinated.)

EXTRAORDINARY CASE OF ARTIFICIAL SOMNAMBULISM. AND CLAIRVOY-ANCE.

To the Lahter of the 'Medical Time o'

Sig. - A few days since, I sent you an account of what passed the first time I mesmerised Calixte. whom, I then called "Caliste" by mistake. I am now going to give you an account of his subsequent sittings. During his second sitting, we were alone-1 said I was ill, and begged him to examine me. He said, after feeling himself all over, that, 't had a pain in my head just there," (marking the spot exactly with his finger on his own head), "that the stomach was sore, and that I had a pain down the back, legs, and knees particularly. asked which knee was the worst? "That," he replied, pointing to the right one; and con-tinued, "the cause is irritation of the chest, for you have a cold, though you don't feel it yet, For I denied the irritation of the chest, though he has since proved quite correct.) He promised me I should be quite well the next day, if I folbriced his prescription (which was very simple). but that I should have a little headache the next day, which would go off as the day wore on. next day I was quite well, and free from pain, and the headache existed and went off, just as he had said; which, added to his discovering my painful knees, and that the right one was the worse, which no soul on this earth knew, was at least extraordi-I then put him en rapport with a lady, whom I had often tried to put to sleep, but failed, and I asked him what I had better do to sneeced. He just touched her fingers, and carrying his own to his nostrils, lips, and forehead, he seemed to reflect, then said with a start, as if frightened,-She has already seen another somnambulist!" and then added, after a pause and a slight move-ment of surprise; "tis Virginie! How I hate that girl!" and on my asking why-he said, "because she has ill-treated me, and was the cause of my leaving M. Ricard." How he arrived at his knowledge, unless there be a fluid, or some emanation, capable of passing from one body to another, is quite inconceivable. How could be tell which knee was the most affected! No soul in this world knew it but myself. He then examined for me, a sick person, whom, I know well, he had never seen; and, of whom, I have every reason to believe, he never heard of. He felt himself all over, and then described her complaint, and all her sensations most exactly; I then gave him some scaled letters to read, as I had done in his first sitting; but, as before, he said he could not, but promised to read them in a few more sittings, if I would always give him the same letter till be succeeded. Without giving him any notice. I then mentally desired him to get up and sit in a chair by his side, but a little further back. He seemed very much agitated, and desired to be awoke, but I did not comply, and still continued my will. He then got up, anproached me, went back again, and I thought was going to take the chair I desired, but fell again into his former one; he pushed it back, however

well for a first trial, and only the second time of mesmerising him. He asked me if I had not tried to awaken him by the "will" instead of by "passes," which he said I had not yet power over him sufficient to do; I told him I had not tried to do so, and then I awoke him.

Third sitting.—We were again alone; he said "he saw the scaled letter better than the last time—that he was sure he should read it; he could already, he said, see an 'm' and an 'it,' and show me which way the writing ran. He should first make out all the letters, and then arrange them in the order in which they are written." He never once has booked at the letters, but places them on his chest.

Fourth sitting.—About fifteen persons were present, some 1 dare say came with the idea of having a laugh at me; and, like all other scepties, when called to see a mesmerie experiment, came very late; in consequence of which, experiments often fail. The instant Calixte was asleep, we proceeded to bandage his eyes with pads of cotton wool, and a white silk handkerchief. He played eards with the person who appeared the most sceptical in the room. It would not be easy to describe the surprise of the gentleman, who sat down to play with him when after he (Calixte) had sorted the eards, they cut for deal, and before he (Calixte's adversary), had himself time to perceive which had cut the highest, and with the cut cards still in his hand, Calixte moved the rest over to him, saying, "it is you to deal;" and on being asked to name the cards, he did so correctly. All the same experiments were gone through, as in the first sitting, of which I have already given you an account, and all perfectly succeeded. A showed him the scaled letter, and he then made out an 'E' and appeared very sure of reading it. We put him in a corner of the room, with his back to the piano, and begged him to beat the time to it, which he did, while a lady played; and, at a signal from one of the scepties, I (standing in the middle of the room, between him and the piano), made him deaf, when he ceased to beat the time, and again began, when, on a signal, I made him hear. 1 proposed to try if he could receive from me a mental order, but stated, that I very much doubted, of any perfect success, as he told me he had not yet any community of thought with me, so as to answer mute questions. However we resolved to try, and one of the gentlemen wrote on a piece of paper, which was given me at the furthest end of the room from him,-"Let him walk up to you, and then pick up that handkerchief." I tore up the paper, and hid him mentally to do so. He got up, walked up to me, and there stood; he seemed very much agitated. He then had his back to the handkerchief, which lay at a lady's feet, and being close to her white dress, was not easily seen, even by a person awake and with his eyes open. He stood still for a moment and desired me to think well of what I wanted him to do. He suddenly gave a start, and with an exclamation, as if he had received an artificial shock, turned round and picked up the pocket handkerchief. I cannot conceive an experiment more fit to convince a sceptic, When we had concluded all the experiments mentioned in the first sitting, we proceeded to unbandage his eyes, which we had examined several times during the evening. I called the most sceptical round him, and made him put back his head till his face looked upwards. We then loos-ened the handkerchief, and turned up the cotton wool till we got to the eyes, when we found them quite embedded, open, and nothing but the whites to be seen. What could any one say? Nothing. -Those who had laughed at me and Colonel Murray, a few evenings before, as poor creatures easily imposed on, were mute, and confessed there was no room for deception; and, even if there were, there was no room to suspect any. Calixte was awakened at his own desire, and the Séauce ended.

Fifth sitting.—We were alone; I desired Calixte to examine, a patient, who had been ill for a very considerable time, and who, I understand, has received no relief from the hands of the medical profession. I never saw her before, nor did I know her complaint. She was the bonne of a lady living over me. He described her sensations, pains,

complaint, who exactly; and described to me the their evidence; for while they rich into mad spestate of all the viral organs. The poor woman calition, they get their facts suspected, by wa quite damb-foundered at hearing her com-laying themselves open to the charge of being plaint described so minutely by such an utter enthu iasts, and, doubtle s, many of them are so, tranger. He prescribed for her, and, to my mind, with the greatest good sonse, and things, too, which I should never have thought of

Whether their power of earing, equal, their power of discovering the discover I cannot yet tell; I must wait, before I can give an opinion, to see the effects of the several prescriptions he has given. and the result of his many promises of cures.

I have here, a female somnandadict, who, is so excessively sensitive to the influence, that I am oldiged to me merise her across the room, and very mildly (I mean with very little energy), or the blood rushes to her head and face, and she get in a state not easily described; she talks, and will no doubt improve every day: he does not believe when awoke, that she has been asleep, but ays, "she supposes she has, as her husband, and every one else fells her so; she also adds, " she does not believe much in mesmerism." It is surprising, Mr. Editor, that some of the medical gentlemen, who seem to feel with regard to mesmerism, as if it were a ldister on their sides, do not try to explain these, apparently to them, strange facts. Perhaps it may, in some way, be accounted for, by the impossibility of any one looking well into the subject, even with the intention of apparsing it, without being himself converted. Vimoni's collecting proof s gainst Gall, and converting himcelf, is perhaps an illustration of this; I cannot, but believe, that, at this moment, half the medical men in London, know the main facts of mesmerism to be true, but that each one fears to confess his belief, for fear of standing alone, the but of ridicule. Were mesmerism put to the ballet amongst the medical men of Paris and London, I think, if mean interest did not sway them to deny it, they would acknowledge such a state as mitigcul signambols . capable of being produced by one laumen being in another. I say "artificial sommembulism," for who does not know what there is in a name to prejudice mankind. The quantity of works publiched best on the ulger of mean to the control of the The De fact of a control of the cont Latitor g is to see an configuration of the school of the single while, to us, it is a representation of the school of the schoo yet these very men think and one for doubling any particular dogma of their particular religion. whatever religion that may be, though their facts are contradictory, and their evidence mere word, and hearsay. Where is the consistency of such men? Could any man give me such proofs of the truth of the religion of the "fire worshippers" I can give, and have received of mesmerism, before I helicard one word of it. I would turn fire worshipper instanter. I for anything I might say on the abject, Mr. Edier, might as well be left in aid, for all the good it will do in advance of truth. If the evidence or so h a man a Dr. Engledne, goes for mostly non-hi in the medical world, what weight can't hape to have! Still, frequent assertion of its truth, the rever a humble an individual, may induce the section have not yet bornt to di pute the evidence of their sense, to book into the subject. Of course, from those to whom I am and newn. I have no right to expect much belief exceeding but, Mr. Lalitor, I do expect. and, I have a right to expect, that to these who have known no fer years, and are well acquainted with my characteries one who e truth they cannot dends, and at who is do on they have never not had to lay the charge of the lay the simple way it is given, hould be enough to make them think the matter, it least, worthy or erion at ention. I do not say, it hould not them relieve, for I have fermerly netherd, and would refuse a ain, to near proving I now believe, on a grobest cribbine, as "not in properties to the facts to be proved," which is the very nature and essent a consequence. What a pity it is that most of the French authors mix up what they do

1 remain, sig. Your obedient servant, W. Machilleson Adams.

EXPERIMENTS IN MESMERISM.

The Landschitz of Mark Landschitz

On the 3rd instant, whils, waiting in Mr. Theakston's sliep, a genth man entered whom I had never seen before, and who groved to be Thomas Carstairs, Esq., surgeon, of Shottichl, visiting Scarborough to attend one of his patients, Mr. C. inquired for the Edinbergh Review, about which we began a conversation; took a glance at Christopher North, and ended about the last new discovery mesmero-phrenology, when Mr. Carstairs declared he had mesmerised several persons both in Sheffield and Derby, where he had becaused on the subject. We expressed a vish to see some experiments, and he at once offered to show the process if we would get him a salgeet. His deportment was open, candid, ingenious and impretending, There was not the slightest sign of any desire to a regish, or to make a marvel of the marter.

Mr. Theaksion offered his errand beys for experiment, but Mr. C. failer of success in Loth cases, owing, it was said, to the neise going on in the printing office, near the recon where the experiments were tried. Mr. C., however, nothing dannted, said he would try again, if we would procure another subject. A servent of Mr. Leckenby's, on the opposite side of the street, consented to submit. She appeared a healthy, robust young woman of a saugime bilious o mperament, and about 20 years of age.

In the first experiment it seemed to require mere time then subsequently to realize the coma or sleep, for she was three-quarters of an hour before she was put into the mesno rie state: Mr. C. during this time, simply looking or staring fixedly at her, and then making a few passes by the hand over the face, to close the evelids. Whilst is this where a war and a distribution 511 starce, wheren, promoting the fective or settence is the fear a reason feetly placed and arene, tike one fear calculations shop. In this condition she ren for about half an hour, during which time seen by several ladies and gen lemen, as other Mr. Duna, surgeon, and Mr. Conlon,

The There Expuriment, -The same young weman again submitted herself to Mr. Carstains, and as it appeared by the results, the party had become more susceptible to the mesmeriser's inthience, for she was ent somethy asleep within cigla minutes, and rendered apparently insensible to pain. Mr. C. was enabled to produce catalypsy of the arms, and to place them in an extended position, in which they remained until be altered the condition of the limbs. About 20 persons withe ed this experiment, and among the rest, that eminent physician, Dr. Simpson, of York.

Tun Last Experiments. These were carried on at Mr. Duna's surgeon, and witnessed by a large party of ladies and gentlemen, amongst whom were J. E. Pennison, Tsq., M.P., Major Thornton, Mr., Dunn, J. Woodall, Lsq., Mons, Richard, and W. Bean, Esq. One of the subjects of experiment is e servam of Mrs. Barry, of Grove Villa, of a lymphobilious temperament. Mr. C. placed her in the chair, and taking her hands into his, he gazed at her for about ten minute, when she fell into a profound shapor the mesmeric condition, her eyehd closed, and the teatures venting a placid it pression. Mr. C. tuck his breast-pin into her hands and pricked her forehead and evelrows, but she have not the kept indication of He then mis differ from the chair, and although still in the sheeping state, she stood alone, but me d and creek. Mr. C. then caused her to move a step or two, a the same time holding her by one arm, and then let her stand above as ancior-

him with a slow and steady movement, gliding along like the ghost of Hamlet's father, dead to sense and feeling, yet alive and moving to the awe and wonder of the spectators. When he had retreated about three yards he stopped, the figure total still also, when she had got close up to him, but without touching him. He then pas ed her on her right hand, when she slowly turned on her heels to the right also, and followed him back again, to where a chair was standing, on which Mr. C. next tood, and made several movements with his hands upwards above the young woman's head, but without touching it, when the body shortly began to give signs of making an effort to raise itself, and she stood on her toes. Mr. C. then placed her on a chair, and attempted what would have proved to me the most interesting feature in the experiment, namely the excitation of particular cercbral organs, but in this he failed, probably from the young woman not being put in the proper deep-waking state. He succeeded, however, in getting her to speak, and to the question " Where where the peak, and to the question "Where are you?" the answered "at home." Mr. C.—
"Areyon confortable?" Ans.—"Yes Mr. C.—
"What are you doing?" Ans.—"Sewing." Mr. C.—"Can you see anything?" Ans.—"Two candles." There were four on the table by fore her. A youth was placed before, her at the distance of about 18 inches between her and the canelles, and Mr. C. put the question "What do you see?" and she replied "A man." The writer slood about eight inches from the youth. Mr. C. then took his watch out of his pocket, and without speaking, placed his hand, holding the watch on the top of the head, over the organ of firmness and part of veneration. He then inquired if she saw anything? when she replied, "Yes," Mr. C.—" What?" Ans,
—"A clock," Mr. C.—" What time is it?" Ans,
"A quarter-past nine," The writer took Mr. 's watch from his hand and saw that the figure. indicated the time mentioned precisely. Several gentlemen looked at their watches and declared that to be the exact time. This circumstance created considerable astonishment. That an individual apparently profoundly asleep, with the exelids closed, could tell the time whilst the watch was kept at the back part of the top of the head was, indeed, truly surprising. One gentleman wished Mr. Carstairs to account for fi, and he simply replied. It may be a oness. Many however, expressed their surprise that she should guess so accurately. Shortly after this the young woman was awakened by Mr. C. blowing in her free, or across her eyes,

Mr. C. then attempted to mesmerise three persons at one and the same time. The experiment was tried on the two young women above-mentioned, and one of Mr. Dunn's arvants, who had also been previously meamerised by Mr. C. The three sat side by side on the sofa, while Mr. C. sat opposite to them, and book the hands of two into each one of his own, and gazed fixedly at the centre one, and in about four minutes her eves became fixed, glassy, and vacant. The one on his left hand fell into the same state in about another mement, and the third on his right in about three miuntes after. He then put their arms into the cataleptic state, but in various positions a one with hands classed and extended seemed supplicating : another, with the head a little averted and the hands held apart appeared to express disgust and abhorrence, while the third with her head more elevated and her hands apart and extended, seemed to express astonishment, mingled with admiration, The fixedms of their position aggrested the idea of the mesmeric cleep being adapted for the study of the sculpter and the artist. When two of them were awake ned they lead of confined and surprised at the statue-like expression of their companion,

Mr. Car tairs stated in answer to some questions put to him as to the practical value of mesmerism. that he had extracted seeth from per one in the mesmeric state, and without any pain being in-flicted on the patient; and also, that he had another patient who had been subject for 12 year to opileptic fits, and often had had two a day, and never not Know with what they no know, in the current amonem. He must made a few movements before while the mix up spirimality with mesmell m. They by a deing, injurement of every one present, the figure beautofellow informed the company in confirmation of went beyond two days without a recurrence of them, Mr. Carstair's statements, that on the Saturday previou, a person near Doneaster had had his leg amputated, without suffering pain. He had been mesmerised several times during the week previous to the operation by Mr. Topham, solicitor, and when the limb had been cut off and the patient was awakened, he felt grateful for having been shat he could remember was hearing some noise that he could remember was hearing some noise like the "grunching" of a bone. It was also stated that when the limb requires dressing, he is thrown into the mesmeric state and the operation is performed without any suffering or annoyance to the patient.

Your Obedient Servant, W. CRAIG.

Scalbert, Oct. 12, 1812.

(We must beg our correspondent to pardon our omission of his prefatory and closing remarks; we cannot give much space to mesmerism, and that little must be given to its absolute facts rather than its theories or reasonings. We have heard from another quarter of the amputation of a leg during mesmeric sleep, testified to by the Hon.M.P., and are not without hopes that we shall be able shortly to place all the circumstances of the astounding operation before our readers. In pursuing the course our readers have noticed in reference to mesmerism we have been guided by the opinion that the testimony of numerous, apparently, unimpeachable witnesses was so strong that if human testimony can evidence miracles, a position which no christian at least, and ne think ne philosopher can oppose, a fair case was established for exquinx, especially as many of the wonders artificially produced, or rather invited out by mesmerists have, as is well known to every medical reader, presented themselves naturally in the swoons, catalepsy, transposition of senses and double consciousness of several well attested cases. The alleged facts of animal magnetism are, if true the most deeply interesting that can occupy the attention of the human mind; and are pregnant with services for science and for mankind which the most enthusiastic imagination would probably find it difficult to overrate. If the facts are suppo-sitious we are anxious, that our profession may have the honour of discharging one of its first duties, -permanently undeceiving the public on an important point of medical science; if on the other hand the facts are true, we are anxious that our profession may have the high and appropriate distinction of early recognizing and honestly establishing them in the eredence and esteem of society. We cannot—we consider—be too cautious is dogmatically laying down our own imperfect and limited notions of possibility as the unchangeable law of mystic and unfathomable nature's doings. and as medical men who have characters at stake. and who cannot be proved fools by the future except with some loss both in cash and reputation, we have perhaps no better piece of property than a reasonable doubt, and no higher wisdom than the wisdom of not being overwise.-Ep.]

EPIDEMIC ERYSIPELAS,

Affecting the Thront, Face, &c. &c.

By J. B. Arden ton, M.D.

(For the 'Modical Times.')

THE months of January and February of the winter of 1842, in Eastern Canada, which are usually the coldest and most severe, proved to be singularly mild, though the weather was execcdingly changeable, alternating frequently from 5 deg. below zero one day, to a complete thaw on the next, with a warm rain or bright sunshine. The consequence of such very imseasonable weather, was a most unhealthy state of the atmosphere, engendering every species of sore throat, quinsy, mumps, &c. Scarlatina likewise prevailed to some extent in the beginning of winter. But the most serious disease that arose about this time, was a singular species of crysipelas, attacking, in the first place, the throat and fances. The tonsils, velum palati, and pharvny, exhibited a deep crythematic redness, followed, soon after, by great puffy swelling, attended with heat and burning pain of those parts, great difficulty of degluti-

nose; in some cases, so great was the swelling ! inside the throat, that if free incisions had not been made in the tousils and neighbouring parts, suffocation appeared likely to ensue. The paand other glands about the neck, were much on larged and painful; indeed, the first symptone were generally pain and stiffness under the cars, followed by rigors, nausea, headache, quick pulse. thirst, and all the attendants of fever, with sore throat. After the affection of the fances had continued two or three days, sometimes sooner, if not arrested there, crysipelas shewed itself in its true character on the face and head; where it would appear to have propagated itself by continuity of surface, for, after considerable pain and itchiness inside the nose, an erysipelatous spot would appear on the nose, whence it gradually spread in all directions, until the whole head and face were involved, producing the usual disfigurement of the The ears, more particularly, suffered from swelling and a deep-scated pain, which was in most cases followed, after some days, by a discharge of muco-purulent, or sanguinolent matter, from the meatus externus. Large vesicles, filled with serum, formed on the cheeks, forchead, and cars. The affection of the throat generally abated when the disease appeared on the face; desquamation of the cuticle took place, as in ordinary erysipelas, and an analogous process occurred in the mouth and fauces. Delirium was a very constant attendant on most cases. In some instances the complaint was confined to the throat alone. In the progress of the epidemic the disease changed its character in some respects, being accompanied with less debility than at its commencement. A peculiarity attending it was, the discharge of purulent or muco-purulent matter from some outlet, generally from the car, sometimes from the nose, indicated by great pain over the frontal sinus. In other instances, large quantities of muco-purulent matter were expectorated for several days, without apparently any previously-existing disease of the chest. In the greater number of cases, large abseesses would form in different parts, but principally about the scalp, neck, axilla, or on some part of the thorax: these accumulations of matter invariably marked the decline of the disease. They took place in situations where there had not been any erysipelas, as well as on those parts, that had been affected. It was remarkable, also, that at this time a great number of persons were subject to the formation of abscesses in different parts of the body, particularly about the glands of the axilla and groin, who did not labour under any local sore, and who had no other complaint; others, again, had very considerable febrile symptoms, with severe local pain, which would yield on the appearance of a collection of matter, containing sometimes from one to two pints of pus. Many persons, also, who were not attacked with any of the more marked crysipelatous symptoms, complained at this period of great lassitude, debility. and drowsiness, with slight sore throat; being evidently minor symptoms caused by the same epidemic. Sometimes the crysipelas of this epidemic appeared on the extremities alone, or on some part of the trunk of the body; in these situations, if not speedily arrested, it would shortly over-run the whole body. The pain and tenderness of the parts affected, appeared excessive. The persons most attacked by the disease, were (conirary to what obtains in ordinary crysipelas) children under puberty, and females, especially those in a state of pregnancy, who generally miscarried in consequence. In many instances, it appeared to be contagious. The convalescence was for the most part tedious, great debility being left behind, requiring the free use of wine and tonies. The bowels were often remarkably obstinate, rendering the use of croton oil necessary; the stools, in such cases, were of a pitchy blackness, with pain on pressing the region of the liver. In some cases, the disease spread down the pharynx, causing very urgent symptoms, mostly from the secretion of a viscid phlegan, clogging up the passage already much contracted from the swelling, and a feeling of burning pain extending down the ecophagus. In one instance I witnessed. the laryux appeared to be the principal seat of the

es nanche larvuges - the patient recovered: in the ame family, there were several eares of the disease, hewing itself in the face and throat. Sometime, it appeared to develope itself in the stomach and bowds, producing incessant retching, vomiting, obstinate costiveness, discharge of thatus, with great pain and heat of those parts. In Vol. IL, p. 128, and Vol. III., p. 91, of the Transactions of the Medico-Chirurgical Society of Edinburgh, is recorded an account of an "Epidemic and Contagion . Erysipelas, accompanied by a severe affection of the throat and laryux, which prevailed at Montrose, in Scotland, in 1822;" which appears to have resembled the one which 1 describe as prevailing in this part of Canada this year. In this town, containing a population of about a thousand inhabitants, nearly one-half were affected in some degree by the epidemic. The mortality, except with young children, was not very great, where proper medical assistance was had; left to itself, the complaint was very dangerous, from its propensity to spread and involve important organs. It has now continued for upwards of six months in this part of the country, but is evidently on the decline. It appears to prevail mostly in small country parishes, avoiding large towns. The country around is elevated and dry, and esteemed very salubrious. In 1832 and 1834, it was one of the few places in Canada not visited by Asiatic cholera. However, this year, the interments in Sherbrooke have more than tripled the average number of previous years. I may mention, in connection with this epidemic, that a very fatal distemper prevailed among horses, this last winter, in all the places where crysipelas shewed itself, which was duracterized by many of the symptoms of that complaint, particularly about the throat. It was also observed that, for some time previous to the appearance of the epidemic crysipelas, slight cuts or scratches did not evince any disposition to heal, but would become inflamed and painful, and that punctures and wounds were frequently followed by severe diffuse cellular inflammation.

The treatment pursued in this epidemic was conducted on general principles. Blisters, in the early stage, were of great benefit, applied to the neck or behind the ears; they always relieved the swelling inside the throat, and required to be frequently repeated, or kept open. After a few days, stimulating poultices were put over the ears, to encourage the discharge from them, which frequently carried off the complaint. The head was generally shaved, and bladders of ice applied to it, with relief to all the symptoms, particularly the delirium. The bowels were kept open, principally by Croton oil, astringent gargles made use of, and when the fances were much swollen, incisions were made in the tonsils and uvula. It was found very difficult to produce any action on the skin, the function of which appeared to be discharged by the kidneys, the secretion of urine being most copious throughout the disease. Whenever the crysipelas shewed a disposition to spread on the surface of the hody, a very strong solution of nitrate of silver was applied, and if this did not succeed in arresting it. I generally touched the crysipelatons margin with the solid caustic, frequently to the extent of producing a blister, which almost always put a stop to its further progress. Some anodyne was generally -belladouna and hyoseyamus appeared necessary to answer best. Whenever any part evinced a tendency to suppuration, this was encouraged by poultices and fomentations. Bleeding from the system did not appear necessary, more particularly as all the diseases of the period marked by debility; but blood was frequently abstracted locally from the head, temples, and throat, with decided advartage; leech-bites did not take on any bad action.

In the large towns, puerperal fever prevailed at this time, epidemically, yet no case came under my notice, of puerperal fever supervening on such women as miscarried while labouring under crysipelas. It was considered hazardous to vaccinate children during the epidemic under consideration, some having been reported to have died from crysipeles supervening after the inoculation.

great putty swelling, attended with heat and burning pain of those parts, great difficulty of deglutition, food and drink being often returned by the complaint, giving rise to all the symptoms of but as it likewise prevailed extensively at the same time (and, I believe, still continues) in the neighbouring States of America, I hope shortly to see a better and more extended account of it in some of the medical periodicals of that country.

JAMES B. JOHNSTON, M.D.

Shekhrooki, t mala East, Auguit, 1812.

ON THE SECALE CORNUTUM.

(In Auster (i.d., RIDOUT, 1) a, Strangel, 1 ...) Sir.—I am, at all times, most willing to give every information in my power, particularly on those subjects which I have communicated to the public. In respect to the matter of enquiry, viz .- " In every respect do I agree with you, as to the priority, the decection of Ergot of Rue claims ever every other preparation of that drug; but there are to be met with rainy cases, where the secule cornatum is especially codicated, and where the delay in its administration, econstand by the necessity for its extemporaneous decostion, would be attended with dangerous and not refrequently total results. If you could point out say way, in which this cert might be obvioud, it would, doubtle.s. be read with great engerress and attention, by many others, as well as yours, &c.

In answer to this, I beg to observe, my long and most exten ive experience of the Sceale Cormitum. enables me to meet the question without any difficulty. I acknowledge, that it is possible, that eirconstances might occur, when a few minutes are of the greatest consequence, both to the patient and practitioner: but I have never yet met with a case cand on referring to my papers, my opportunities have not been few), when the time in preparing, and exhibiting the decection, could have been said to have been time lost. The plan I adopted (when in active practice as an accoucheur), was simply the one I would carnestly recommend to others; which was this, I kept the Secale Cormstum, finely pulverized in doses of Hiv. to Hij, wrapt in pieces of sheet lead, obtained from the inside of tea chests, which enables the secale to retain its qualities unimpaired for a considerable time without occupying much room in my waiscoat pocket. In any case of emergency (such as you have so properly suggested), I called for a small saucepan, and a tea-cup full of hot water, if any at hand; if not, cold: and boiled it quickly. In five minutes I poured half the decoction off into a vessel for immediate use, and allowed the rest to digest a few minutes longer till wanted, giving each dose as hot as it could be conveniently taken. In my paper, on this subject, I allow a longer time for making the decoction which ought to be followed if time will permit; but if the secale be sufficiently powdered, its principles as a stimulant, are soon given out to the water; and if the case be really urgent, the above plan may be acted upon with advantage. From what I have observed of this valuable medicine, I feel certain, the action of the decoction is both quicker, and more effective than the prowder given in substance; to that the time lost (or supposed to be lost), in pre-paration, is positively (when compared with the action of the powder), no loss at all; indeed, I question, if it be not a gain of time, rather than otherwise. I have often had to wait for a coniderable pace for the action of the powder; on the contrary, if the rules I had down in my essay, be properly attended to. I have always found the action of the decection to be almost immediate.

Hoping the above will be a sufficient explanation, and thanking you for your candour in making

the enquiry,

1 remain, Sir, Your's respectfully, CHARLES CLAY, M.D. a Pheaddly, Minch acr

Count Janbert, known in the world of letters. by his botanical works, is at present preparing for publication, the travels of Aucher Eloy, a young French botanist, who, after struggling for ten years against a variety of dangers in visiting Egypt, Arabia, Syria, Cyprus, Greece, the Islands of the Archipelago, and Persia, lately expired at Dejulfa, near I-palian.

SUSSEX COUNTY HOSPITAL. A vacancy has occurred in the surgeonship of this institution, by the resignation of Mr. Whitehouse.

TO CORRESPONDENTS.

College of Surgeons,-We have received a great number of letters on the maje regulations of the College of Surgeens. It is complained with great justice that their retrespective operation is a cruel injury to numerous persons, whose fortunes are more or less embarked in their son's receiving a diploma at the time, which, on entry, the College regulations gave him assurance of provided he should be able satisfor largly to prove his competency. It is easy to conceive that the means of many a family may extend no further than the payment of the expenses required by the less exacting rules, and that if the College had required at the entry of a young man its present more costly course, they would have shrunk from the undertaking as hey ad their means. There was here then a moral centract with the students which should not have hern broken. We cannot too carnestly impress on the Conneil the necessity of immediately amending their over sight. We are owner that the Council are making many exceptions in the operation of their rule - why not at ence do what justice, humanity, and wise policy require, exempt publicly from its operation all student; entered before its emission?

A Surgeon and Subscriber, -No Surgeon can foist an empiric into a Por Law Medical Charge under the pretence of partnership. Let the circumstance be mentioned to the Poor Law Commissioners if the Guardians's mire at the terming,

F. On the Proposal for forming a Sydeulian Publishing Society, west week-as also Cases by Mr. Thornton, Mr. G. Laing, Mr. Annan, Sc.

A number of Correspondents under consideration. In. Scoffern's Lecture on Cheurstry-Mr. Nottingham's on Operative Surgery-M. Serves on the Development of Organs, Dr. Williams on Medicine, in our

We are obliged to pestpoor our concluding notice of Sir A. Crichton's Book till most week, as also netice of one or two other works,

Mr. Johnston's Case of Tetanns, cured by large doses of opinm, and Dr. Gore's Communication on a New Preparation of Secule Cornutum, have been re-

Vols. 1, 3, 4, 5, are ready in bounds, price 7 wood, Val, 6 is also ready, price 10s 6d-N.B. Vals, 5 and 6 were published under present management. Double price will be given for expics of No. 34.

NOTICE.

ON THE 1ST OF DECEMBER NEXT, WE PROPOSE TO PUBLISH, AS AN APPENDIX TO OUR ORDINARY NUMBER, A Medical Almanae, FORMED ON THE ADMIRABLE PLAN FOL-LOWED BY MESSRS. FOOTE & FARRE, IN THEIR ANNUAL POCKET BOOKS, AND REPLETE WITH MATTER THE MOST VALUABLE AND INTERESTING FOR THE MEDICAL PROFIS-SION. THE ALMANAC WILL CONSIST OF 72 QUARTO COLUMNS, AND WILL BE SOLD AT THE ORDINARY PRICE OF OUR JOURNAL VIA. 4D. PLAIN, 5D. STAMPED

THE MEDICAL TIMES.

Syterbay, October 29, 1842.

" Divide et impera."

Wi have beard a great deal of nonsense, of late, on the Division of Labour. A certain Dr. Robert Hull whom, from his recent rather protracted silence, we may congratulate-we suppose-as in the enjoyment of a lucid interval, has been venting on this interesting subject we know not how many thapsodies, in which, if his over-larding quotations were a little less infelicitous, or shewed the least imaginable connection with the topics he evidently wishes to write on, we should be led to consider his ignorance of the vernacular atoucd for by some knowledge of the Greek-as his lack of sensible ideas, is fully explained by his maivellous plenitude of silly, pedantic words, As refined demarcation. But let us suppose

might have been expected, his notions have found much favour with a contemporary, whe, to speak charitably of him, appears never to have written a line for his readers which was not penned under an impression, that to set his brain a-working would be a mortal sin against his one virtue-gentility; we mean, of course, the Editor of the Medical Gauctte. This rational gentleman, backed by all the powers of Hull, has even taken the trouble to elaborate a leading article, demonstrating first, the utilities of a division of labour (a startling novelty in the way of proof, which would make the loss of Adam Smith's works a mere bagatelle); secondly, the advantages of a division of study and practice of different medical men, on different medical subjects, (a momentous matter never disputed, we may say, for the repose of mind of Dr. Hull and our genteel contemporary); and, thirdly—as a logical corollary—the benefits of two Colleges, one for Surgery, the other for Medicine-and both for jobbing, intrigning, and nepotizing. Our readers will pardon our insinuating that our two gented friends were paying a sneaking thought to the last items of their tripartite division of labour; it is a compliment we are paving their judgments, for humbly as we may think of the men, we cannot suppose that such an intemperence of nonsense as they have indulged in, had no human temptation for its exense, and, save fatuity, no earthly motive for its origin!

The first piece of absurdity of your men of division is-as we have already hintedtheir inference that because the special study of special diseases has its advantages, therefore, a demarcation should be made, which confessedly has reference, not to the specific character of the diseases, but to that of their treatment, - a demarcation, the location on either side of which is decided, not by the nature of a man's study, or knowledge of this or that class of diseases, but by circumstances which have little or no connection with either. Let us concede that every disease shall have its own doctor —and the utmost rage for division can surely ask for nothing more than thiswhy shall surgery and medicine be separated, and confided to two classes of doctors? The two kinds of divisions have no relationship. They are not idem generis. They, in truth, exclude each other. The doctor of one disease, must be at once surgeon and physician, or else, he is but half master of his specialty; and the surgeon or physician, who carries out the principle of division of labour to its due limit, viz., taking one disease under his charge, has, in doing so, ceased to be surgeon or physician-he is both. So that in truth, the very principle of division of labour-so foolishly lauded by our claborately empty Hull -and our weekly register of wit's bankrnpts-the Ga:cttv-is the very principle which proclaims the ab-

surdity of the division into Surgeons and

Physicians. The greater, coarser, section

cannot coexist with the perfect and more

that these two divisions can coexist without maintain it in practice. We have only to crossing each other, how absurd still is the consider for a moment the rapid uprise in course of deducing, from the advantages of respectability and pretensions, of the body screral separate practices, the usefolness of of general practitioners—the variety of having two separate Colleges. If the prin- mints in which medical men receive their ciple be, that specialties in practice shall be moulding, superscription, and title-the represented by specialties in Colleges, why difference of qualifications or stations indishall not Mr. Curtis, and that modest protege of the Dispatch, Mr. Yearsley, preside over a Corporation of Amists? Why should not Dr. Monroe and Dr. Sutherland form the Council of a College of mad doctors (to which, by the way, Dr. Hull would form an essential attaché)? Why, in short, should there not be as many Colleges as there are peculiar brunches of practice? If we are told that two governing bodies may properly take them all into their dual jurisdiction, we deny the state-Our contemporary, singularly ment. enough, cites Dr. Prout's case as evidencing the advantages of the present system. Now, which College, we ask, can properly claim Both cannot-for membership in one, enforces non-membership in the other. One earnot-for his practice is essentially dual. But even if two Colleges could include all practitioners, why might not one? A man may doubt whether his practice be surgical or medical-but no one of us doubts his being a member of the medical profession. Whatever two Colleges can do for us separately, could be done quite as wellby them in a state of incorporation, with a saving of much time, much money, much order, much personal warfare, much general discontent.

But we are told :- " The divisions in the practice of medicine, give an opportunity to the lovers of its science to pursue whatever branch their fancy or interest dictates. They may choose the arduous but more profitable life of the general plactitioner; they may engage in the learned studies of the physician, or they may give scope to their dexterity as pure surgeons!"

The scholastic essayist (who talks of medicine's science, and of dictating a branch!) is evidently as much at sea in his notions as in his verbiage. He labours under a double hallucination. He obviously fancies that medical reformers object to divisions in practice, and thinks that, because men should study that part of medicine which pleases or interests them most, they must, of necessity, have specifically three governing corporations! How astounded would our contemporary probably be, if told that, incorporated into one Faculty, " the lovers of medicine's science may yet," in the words of his own theme, "choose the arduous but more profitable life of the general practitioner; they may engage in the learned studies of the physician, or they may give scope to their dexterity as pure surgeons!"

In very truth we know of no more preposterou, thing than the notion of separating surgery and medicine. It is about as wise as the divorce of anatomy and physiology. Essentially knit together by nature, we may abstractedly imagine a distinction in thought, but no ingenuity can enable us to Pharmacy,

cated in different places by the same names - and the vagueness and confusion of titles and practices which thence originate,-a result which, though springing from different sources, is observable in the practice of our most noted surgeons and physicians, —we have only to reflect on all these positive facts, to feel the absurdity of all our opponents' pretty speculations, and the midness of endeavorning to maintain a barrier of division which exists neither in nature, reason, nor expediency, -and which, without penal enactments in its favour, can not possibly support itself for another twenty years!

THE LIST Regulations of the Poor-Law Commissioners, demanding, among other requisites, membership of a British College of Surgeons in all Poor-Law medical officers, are fresh in our readers' remembrance, -and they probably recollect that, impressed with the hardship which the requisition of a double diploma would cutail on hundreds of gentlemen, who, from their possession of the Hall's License, were held competent by law to act as medical practitioners, we strongly represented to the College of Surgeons the expediency of admitting such sufferers to membership, under reduced fees, and with a suspension of the customary regulations. We are told that the Council, entertaining our proposition, under the presidentship of Mr. Guthrie, came to a resolution, which-though not conceding all we suggested-yet conceded enough to make their offer a boon of no small importance to a great many country practitioners. For some reason we are not acquainted with, this decision was not, at the time, officially made matter of publicity: to thousands, our last number was the first intimation that such a step had at all been taken. Yet we are told that, as early as July last, a letter was sent by Mr. Guthrie to one of the most influential public officers of the Provincial Medical and Surgical Association, announcing the circumstance, and begging that it might be made known to the members at the then approaching annual meeting. The letter ran much in this form :---

t, Berkeley Street, Berkeley Square, July 15th, 1842.

DEAR SIR,-1 send you berewith a copy of a letter I have addressed to Mr. Howell, the Scnior Member of the Surgeons of the London Unions, on the subject of the augmentation about to be made by Government to the sum already paid for the medical relief of the poor, which I shall be obliged by your making known to the gentlemen composing the Provincial Medical Association.

I regret very much that circumstances should render it necessary for the older members of the profession, who have no qualification, to obtain that of the College of Surgeons of London, in addition to one in Physic and

The difficulty they might suffer from, has been, however, removed by the kindness of the Court of Examiners, who have, and are admitting, gentlemen of their standing to examination, on their merits practically, without reference to the regulations which are in force as to their education. There is no difficulty then in obtaining the diploma, except in the want of capability, which I trust will not be found among the gentlemen to whom I have alluded; and the expense to which they will be subjected, must be as nothing compared with the advantages which will be derived from the qualification.

Lam, Dear Sir, Your faithful Servant. (Signed) G. J. GUTHRIE. To Dt. HASTINGS, Womende

Will Dr. Hastings oblige us by answering three questions on this matter? Did he receive such a letter? If so, did he announce it to the members? If not, why did he decline? We infer not-we cannot yet infer-any charge against Dr. Hastings, but an answer to these queries will obviously be as much required by his reputation as expected by provincial practitioners.

LECTURES ON THE ANATOMY AND PHY-SIOLOGY OF THE NERVOUS SYSTEM.

By Professor OWUN, F.R.S., &c

The brain of birds, like that of reptiles, consists outwardly of five principal masses, namely, the two hemispheres of the corebrain, the two optic lobes, and the corebellum, to which ought perhaps to be added the cerebral expansion of the spinal chord, called the medulla oblongata. This, however, as in reptiles and fishes, is without that in-ferior superadded body, called the pons varolii, or nodus encephali in mammalia; only an obscure representation of it, consisting of a thin layer of arehed transverse fibres, the lower ones answering to the arciform filaments, can be discerned with any distinction in the largest birds, as the ostrich. The cerebellum offers in all those oviparous vertebrata, which can sustain themselves in the atmospheric ocean, the same complicated transversely folded condition as that which characterizes the strongest swimming fishes that sour in the upper regions of their atmosphere of waters; birds in this respect manifesting a sudden resumption of a type to which none of the grovelling reptiles could ascend. The optic lobes, by reason of the superior development of the cerebellum and cerebrum, occupy a different position to that which they heretofore presented. Instead of one line or series of tubercles, they are now pushed down below the level of the larger and cephalic masses, and are lodged in the inferior and lateral interspace of the cerebrum and cerebellum.

The accurate anatomist Coiter, was the first to notice, in 1573, the characteristic differences which the brain of birds presented as compared with that of quadrupeds in the absence of convolutions in the cerebrum, and the presence of an unusually large pars vermiformis in the ecrebellum. Willis, extending his comparisons to the internal structure of the brain of birds, detected the absence of the corpus callosum, the fornix, and, as he believed, also of the corpus striatum; he describes the anterior and posterior commissures. Haller regarded the two small grey tubereles upon the erura cerebri anterior to the optic lobes, as the corpora striata. Sociumering and the Wenzals called the bigeminal bodies or optic lobes the thalami. Cuvier also considered the optic lobes as the optic thalami, and describes their true analogues as small appendages of the crura corebri; they are, in fact, present in all birds, and form the lateral walls of the third ventricle. Cuvier, however, rightly considers the hemispheres as being formed almost exclusively by the corpus striatum. Mulacarne held the anterior commissure to be the corpus callosum. Tieddeman denies this, and points out the commissure of the optic lobes, the pineal gland, and the sylvian fissure more accurately than his predecessors. Meckel and Carus admit a radiment or germ of the corpus callosum, and describe the ganglions at the origin of the acoustic

The ecrebellum of birds consists almost exclusively, of the parts corresponding with the superior and inferior vermiform processes, as in the mammalian brain. The inferior process is, however, always smooth and without transverse plications; the Superior is deeply folded, but with so much regularity, as to permit the plications being counted. It is important to observe, that the number of these folds which give the essential degree of complication to the cerebellum is directly as the swiftness and vigonr of locomotion, inversely as the duration and physical pleasure of the coitus. Thus, in the drake or gainder, which are provided with an elongated piral, and largely developed intromittent organ, the number of folds in the cerebellum is thirteen or fourteen. In the sparrow, there are seventeen; in the jay, eighteen; in the magpie, twenty; in the swift, twenty-five. In none of these passerine birds, does an intromittent organ exist. Indeed, in no does an infromittent organ exist. Indeed, in no birds, save certain aquatic species, where the union of the seves takes place on the water, is there any intromittent organ. They are, in this respect, worse off than the crocodile, the tortoise, the lizard, or the snake, in which the cerebellum is smooth, simple, and of much smaller proportions.

The cerebellum in birds, consists of a double plicated layer of nervous matter; the outer one grey, the inner one white, having an ample cavity in the centre, continued from the fourth yeartriele. It is connected anteriorly by the valvula Vicussenii, -which is the most central and general. and apparently most important of all the commissural apparatuses of the brain-with the optic labes, and the crura cerebri. It is connected laterally, as you perceive, in this preparation of the ostrich's brain by transverse fibres, forming a kind of diffused commissure with the medulla oblongata. It is connected behind, with the posterior and lateral columns of the spinal chord. The fourth ventricle is a deeper excavation than usual, and presents the median-longitudinal division or calamus, and the acoustic tubercle. The optic lobes form a single pair of hemispherical bodies, which we seen to be regarded by some anatomists as the thalami optici, and by others, from their inferior position, have been called corpora mammilaria. Their order of development however, the analogies of the permanent embryo-like forms of vertebrata, and the transitory embryonic stages in higher animals, prove them to be the optic lobes, the analogues unequivocally of the bigeminal, or part of the bigeminal bodies, in the mammiferous class, This latter question is one of much interest, and which besets us in the first comparative glance, which we take of the brains of birds and mainmals. Are the single pair of optic lobes in birds, which give exclusively origin - a double origin - to the optic nerves, are they the analogues of, or do they represent the whole mass called bigeminal hodies in mammalia? Are the bigeninal bodics in this class, the result of the superaddition of a transverse to the longitudinal eleft, which alone divides them in birds? Or, are the optic lobes in birds, the analogies of only one of the pairs of the bigominal hodies in inammalia? And if of one only, of which? Some years ago, I sought in the works of the authors on Comparative Anatomy, for a satisfactory solution of the e-queries and in vain. I am not aware that the question is decided by sufficient inductive enquiry or analogies in any work. You will observe, that the optic lobes in birds, are far apart united by a broad thin medullary plate, covering a broad channel of communication to tween the third and fourth ventricles; you will observe, that the valvula Vieussenii, which connects the optic lobes with the cerebellum, is likewise of usual breadth, and that that part which is immediately posterior to the optic lobes forming the anterior terminations of what would be called, processus à cerebello ad testes, is somewhat thicker than the rest. In the brain of the ornithorieus, and of the echidna the optic lobes are again approximated towards the median plain, and the anterior part of the valvula and processus a cerebello, which are connected with them, present casually placing his right hand upon the a still more marked enlargement, but do not yet, muzzle, from some opposing substance coming | days, it should be carefully enquired, in what

tubercular masses. This is the form, however, which the posterior bigominal bodies or testes, as they are termed, present in the marsupialia and rodentia. By this series of analogies, we clearly perceive that the textes consist of a distinct and pocial development of cerebral mutter in a part analogous to the broad and thin plate behind the optic loles in birds; and that these lobes, therefore, are strictly, the analogues of only the nates or anterior pair of bigeminal bodies in the manniferous class. The anterior and largest enephalic masses, called cerebarl hemispheres, are remarkable for their podunculated connection with the rest of the brain. They present a slight oblique depression at their base, representing the fissura sylvii, and in a few of the more intelligent birds, as the magpie and parrot, there is a small longitudinal fissure at the upper and fore-part of each hemisphere. They present no other traces of anfractuosity or plications in any other part of their surface. median side of the hemispheres, which are in contact are smooth and flat, and this contact is seen to be converted into union of substance at only one very small part at the bottom of the fissure by the chord analogous to the anterior commissure in man. A very remarkable series of radiated white fibres diverge from the anterior part of this commissure upon the flat, median surface of the hemispheres The rest of the cerebrum consists of a reddish grey substance, traversed by very numerous white strice which radiate from the crura. There is no distinct layer of grey and white substance, no cincritions cortex, this exists only in the cerebellum. There is generally a small pyriform olfactory tube at the anterior apex of each hemisphere.

The brain in birds, as in reptiles, bears a proportion rather to the heart than to the whole hody. In the humaning bird it is as one to twelve: in the ostrich as one to three thousand: the median, or average proportions of the brain to the body of birds, is computed by M. Lenrer to be one to two hundred and twelve. The breadth of the brain always exceeds its length. The hemispheres chiefly consist, as Cuvier has stated, of a mass of cerebral matter, which, by its intermixture of grey and white matter, resembles the corpus striutum. The cerebrum has been thought, from its large proportionate size in some of the lightest and most diminutive of the feathered tribe, to be better developed in them than in the elephant, the orang, or even in man himself. But the supraventricular mass of cerebral matter, which constitutes the actual characteristic superiority of cerebral organization in the brain of mammalia, is in birds not better developed than in reptiles. The lateral ventricles—the only cavities in the cerebral hemispheres-are covered laterally, superiorly, posteriorly, by the thinnest imaginable fibre of medullary matter. Space seems to be almost altogether denied for the location of the phrenological organs, to which the very striking and various physchological mani-festations, and instincts of the bird might be assigned. The corpus striatum here monopolises almost the whole of the cerebral division of the brain. Even that posterior boundary or wall of the ventricles, in which the instinctive cares and afficetions for offspring have been conjectured especially to reside, presents no appreciable increase of deve-lopment in the nest-building, fond, feathered mother, who not only toils daily to feed, but broods over, cherishes, protects, and even fights for her offspring. The a-denominated organ of phile-progenitiveness has no greater development in bird than in the crocodile, which manifests its instincts and feelings towards its offspring by devouring them.

CASE OF GUN-SHOT WOUND.

IN W. CRUIKSHANK, L. J. Co. (For the 2 Marson At Titot

Mr. I, R. J., a4, 28, of sound constitution and perfect health, was returning from a shooting exeursion, in the month of December, 1840, with his fowlingpiece loaded in the usual manner, with powder and small shot. On

project as a distinct pair of lower yet broader in contact with the trigger, the powder was ignited and the contents discharged, producing a dreadfully Licerated and confused wound of the radial side of the metacarpal portion of the hand; the wound presented such appearances as are observed on discharge of fire-arms so close to the injured part a large, black, and ragged aperture. The metacarpal bone of the fore-linger was hattered to pieces, as well as the os trapezium, to which it is attached at its carpal extremity. Mr. Cruikshank, on being immediately called to the case, found the forefinger hanging by its flexor tendon, which he immediately cut across. He forthwith procured the assistance of two of his professional brethren, and commenced dissecting out that portion of the shattered metacarpal bone which remained, as also the fragments of the os trapezium: which dissection was effected with some difficulty, on account of the bones fractured with so much violence, baving their fragments irregularly imbedded in the surrounding soft parts. The injury thus involving the synovial capsule of the wrist joint, rendered the case of the most serious nature; but Mr. Cruikshank resolved, along with his professional brethien, to save the hand, trusting to treatment, and the advantages of a good constitution to effect the cure.

A common bread and water poultier was applied for the first week, during which period, an absecss formed on the ninar side of the wrist joint. The abscess was opened and the treatment changed for cold applications, in the form of keeping cold water constantly dropping upon the injured parts. This had the effect of removing the inflammation considerably; but in order to do so still more effectually, leeches were applied at intervals, during the process of the cure. The regimen of the natient was strictly antiphlogistic; consisting of occasional purgations, nauscants, low diet of a vegetable nature, and cooling dilucuts. This treatment was persevered in for the period of two months; at the end of which time, the wound was nearly healed, when the local applications were changed for that of simple dressing; which forming the final treatment, was continued till the wound was perfectly

Afterwards the use of the fingers was gradually recovered by gentle exercise and friction with the linimentum camphoratum; but the wrist joint remains completely anchylosed.

EXTRACTS FROM FOREIGH JOURNALS.

ON WOUNDS OF THE HEART.

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We may put forth the following propositions for judging the danger and fatality of heartwounds.

1st. All penetrating wounds of the heart, from which death suddenly follows, are to be pronounced fatal, whether death be caused by hamorrhage, or from pressure upon the lungs and heart, or, in fine, from the nervous system by spasin and paralysis of the heart. We would call it hamorrhasic death, when the patient has lost much blood externally, when one-half of the chest is found quite filled up by it, and when the symptoms of inanition are mirked. It may be called death from pre-sure upon the longs and heart when less idood has flowed out than in the case above, when the patient has died under symptoms of suffocation, and when much blood is found in the pericardium.

2d. In penetrating wounds of the heart, from which death has followed later, after some manuer death has arisen, and whether it might not have been prevented by proper medical treatment.

If death occur only in a later space of time from harmorrhage and exhaustion, the wound may be declared to have been fatal, for here no help was possible.

H' death occur from suffocation at any time, when from the time and symptoms it might be supposed that the wound in the heart had already closed itself, and dissection shows a large quantity of extravasated blood in the cavity of the chest as the cause of death from suffication, the wound, when paracentesis has not been attempted, cannot be pronounced absolutely fafal. When the extravasation lessens and dissipates itself by reabsorption, without paracentesis, and death occurs without the operation having been performed, we cannot declare the wound to have been necessarily fatal.

If death arise from extrava-ation of blood into the pericardium, whilst the opening of the pericardium has perhaps even closed itself, the wound is to be pronounced absolutely lethal. The section must in this case show the extravasation.

When death follows from inflammation of the heart, when in spite of the best freatment. the inflammation proceeds uncontrollably, and has a fatal termination, the wound is to be prononuced as absolutely fatal. This will be the case in young subjects disposed to inflammation, and where a foreign body, as the point of the wounding instrument, remains in the wound. The section here must show the products of inflammation, and the absence of other quicker operating causes of death. But in heart inflammation, if death follow from manifestly improper treatment, and no causes are found that must necessarily produce inflammation, and the wound be already closed, and all other causes of death be absent, the wound is not to be pronounced absolutely lethal,

3rd. Wounds of the heart not penetrating, which cut the substance of the heart, without passing into either of its cavities, cannot any longer be considered as absolutely lethal. As these for the most part can only become fatal through the consequent inflammation, so is it valid reason to assert that death is caused by the consequent inflammation of the heart. They can, therefore, only be pronounced as necessarily latal, when, notwithstanding the mest proper treatment violent inflammation comes on, which terminates in death,—in individuals. who are much predisposed to inflammation, in cases, where a foreign body remains, &c. but even also in the last case, where foreign bodies remain, bealing is yet possible, as individual examples have shown. The accuracy of the treatment must depend upon the history of the case, and the section afterwards must shew the products of the fatal course of the inflammation But those wounds ought not to be pronounced as necessarily fatal, where the treatment was manifestly had, when not the inflammation of the heart, but other circumstances have been the cause of death, as in the case presently to be cited from Neurolic. The case of Neurobr affords an instructive example of the kind. He, 19 years ago, pronounced such a heart would to be not ab olutely lethal, while the treatment was notoriously bad, which instead of extinguishing the inflammation, must have necessarily caused its augmentation, although death here was not caused by inflammation of the heart, but through the conflict of other causes, and was brought on especially by the irritating treatment. There was a wound oneinch long and three lines broad, which went through the common integuments, and cut Neurohr, in flenkes Zeitschrift, 1825.—11ft: 3. through the cartilaginous portion of the 4th S. 133.

rib on the left side, three lines from the stermin. This wound pierced through the pleura from without in a somewhat oblique direction, cut through the left lung, at its innermost end, half an inch in length and three lines in breadth. if then, in the same direction pierced through the pericardium, in its upper part, half an inch in length, and wounded the heart just below the entrance of the right ventricle, at its upper convex part, one short line deep, one inch and a half long, and one small line broad. No traces of inflammation were present in the heart, the pericardinum contained four ounces of coagnlated blood, in the left eavity of the chest was found between 10 and 12 ounces of partly coagulated, partly fluid black blood, which had been poured out by the severed intercostal av-The pleura was free, no where adhering. The lungs were somewhat collapsed, yet normal; only where the left lung was wounded, inflamed spots shewed themselves from one and a half to three inches in circumference, yet without passing into suppuration or gangrene, During the course of the sickness, which continned to full days from receiving the wound till his death, the patient had difficult, anxious breathing, pain, stitches in the breast, small frequent pulse, strong fever, and great restlessness. The treatment was throughout faulty; no bleeding was attempted, no cooling aperient medicines were given. Instead of these, in three days from receiving the wound, nourishing dief, bark internally, cataplasms of wine and aromatic herbs. After a period of 10 days the patient died under great restles-ness, quiet delirium, great dyspucea, intermitting pulse. Neurohr here rightly judged that the wound was not necessarily fatal, but that death was caused from external circumstances, from the want of proper treatment, but nothing in the wound necessarily produced death in the bungs little, and in the heart no traces of inflammation were found, the treatment was throughout vicious, and no attempt was made to empty the chest of the extravasated blood, which at leagth by its pressure and pernicions quality, brought on paralysis of the lungs and heart, with which the extravasation into the pericardium had freely co-operated, which nevertheless by itself alone could not have produced death. † That such wounds can, indeed, be again healed, the case communicated by Ollenroth, among others, fully proves, where the pericardium, and even the apex of the heart, together with the lungs, were wounded. A soldier had wounded himself with a knife where the 5th and 6th rib united themselves with their cartilages. After the wound had been dilated, one might discover a wound in the lung, the pericardium, and a superficial wound in the apex of the heart, which was six lines long. With the finger one might perceive how by the systole, the heart lengthened itself, and touched with its somewhat outward bowed apex the 6th rib, but by the diastole it shortened itself. The motions of the heart appeared to resemble the screw-like movements of a spiral spring. Whilst the heart contracted itself, the arteries dilated themselves; namely, when the point of the heart touched the finger, the radialis dilated itself. When after four er five heats, the pulse intermitted, so was the systole of the heart [abouring and trembling.

Bleeding was frequently used, and healing followed.

tth. Wounds of the coronary arteries are absolutely fatal, for here, from the unceasing motion of the heart no closing of the arterial wound can be expected, and no help is possible it may be that only a very small twig of the artery is wounded, which yet may close itself

oth. Ruptures of the heart which are can ed by violent pressure on the chest, are absolutely fatal. Examples of this kind may be found in former as well as in latter times.† Death, it deed, here follows from the sudden filling of the pericardium with blood, which is permitted no exit, and which suddenly paralyses the heart not accustomed to pressure. Thus death follows quicker than when through other oreasions a sudden outpouring of blood takes place into the pericardium.‡

PERISCOPE OF THE WIEK.

Musical Larity of Arteries, -1 feel a degree of confidence, says Dr. T. H. Moore, of Dublin, advocating in unequivocal terms that the fibres of the middle coat of the large and small sized arteries, be their callbre what it may, are essentially muscular; that they possess the appearance, the arrangement, the physical and chemical properties, and are subject to the same pathological lesions, as the nouscular tibres in the inbular apparatus of the lungs. and the fibres in the different divisions of the alimentary canal; all which properties, however equivocal, anatomists, physiologists, and chemists, may pronounce them to be in the healthy combition of the artery, yet are rendered so manifest in the pathological lesions to which these vessels are subject, that they are more than sufficient to dissipate our doubts, and confirm these statements. Who, in the current year, would have the hardihood to assert that the bronchial tubes of the fernary, quaternary, or septenary order of bifurcation, were destitute of museular fibres, because to the eye of the anatomist they are often invisible; by the hand of the anatomist they frequently cannot be traced; and in the analytical experiments of the chemist, they may be found delicient in that proportionate quantity of fibrine entitling them to rank as museular? Who is that physiologist, be his experiments performed with the most exquisite dexterity, who has succeeded in producing contractions of the muscular fibres in the bronchial tubes by the electric and galvanic stimuli, even though he employ triple the number of plates with which he failed when experimenting on the middle coat of the arterial tubes?-In a variety of pathological lesions of the arterial system, the preparations of which were subjected to microscopic examination, the formation of small circumseribed accumulations of yellowish coloured particles has been noticed, varying considerably in size, from a pin's point to the circumference of a silver penny; and in consistence, from a state of perfect fluidity to that of thick cream, collected into a soft pulp or pap, which, when washed away, an croded, irregular, jagged depression was distinctly apparent: the continuity of the fibres of the middle coat being intercepted, and, as it were, destroyed by ulceration. To such a degree had this destructive process progressed, that the external cellular tunic has been visible

^{*} Neurobr in this case wrongly ascribed the death especially to the pressure of the extravasated The paralysis of the heart and hugs might blood. easily have been induced by so heating a treat-

[†] Indicial inquiry upon a person who died after 10 days from a wound in the heart, by Dr. G. A.

Schmuckers vermischt chir, schriften, bd. 11 † Zwei neuere Fälle's, in Rust's Magazine. Bd. XVI, and in Gräfe's and Walther's Journal, bd. V.

[‡] Salzmann de subitanea morte a sanguine in pericardium effuso. Argentor 1731.—Metzger's system des Gerichtl, A. W. 4 Aug. S. 137.

underneath, and when held to the light was perfectly diaphanous; whilst the internal lining serons membrane, covering these yellow-coloured patches, had lost much of its natural polish, was discoloured, hypertrophied, rugous on its surface, in many places thrown into small but distinct folds, easily separable from the middle coat; but very seldom have I seen in this diseased condition of the artery an abrasion of its surface; whilst a complete dissection has been performed between it, and the middle coat, by the process of suppuration, which had originated in it, was confined to, and progressed during the patient's life-time, amongst the muscular fibres of the middle coat.

ONYMIS .-- The diseased lateral growth of the nail of the great toe, when it presses into the surrounding soft parts, and causes a fungous granulation to spring forth, may be cuted by the application of Vienna paste to that portion of the matrix of the nail, which corresponds to the part involved in the vicious growth. The adjacent parts are to be protected by adhesive plaster. By the destruction of the matrix, the reproduction of the diseased nail is prevented. The Vienna paste is the potassa eum calce, prepared with six parts of

quick-lime and tive of pure potass.

IODURET OF POLYSHUM IN STUBLIS -Dr. Langevin, of Havre, has detailed a series of cases of secondary and tertiary syphilis, in which he found the interternal administration of the ioduret of potassium in large doses of exceeding service, in every instance effecting a speedy and sustained enre by its use. The first case he details is that of a young man, twenty-five years of age. who had injured his constitution by excesses. and still further by repeated merential salivations, which had occasioned alopecia and the loss of his teeth. When he consulted Dr. Langevin, besides syphilitie exostoses on the ribs and nocturnal pains, his left elbow was converted into a semi-spherical tumour as large as a fullgrown fietal head, smooth, hard, and polished. The skin was free from redness; the fore-arm was flexed at an acute angle on the arm, and both were atrophied. None of the hony protuberances of the joint could be distinguished. Two seruples of the ioduret of potassium, in a quart of infusion of saponaria, were given daily for eight days, and the dose was then raised to four scruples for the next eight days, at the expiration of which time the tumour was lessened in size one-half. Eight scruples a-day were then ordered for a fortnight, and then the elbow had resumed its normal shape and size: the condyles could be distinctly felt in their proper situation, and the powers of flexion and extension were restored. The costal exostoses had also disappeared; the nocturnal pains had ceased from the fourth day. During the treatment the patient had a voracious appetite, some redness of the eyes, headache, and dryness of the throat, which were easily removed This case occurred two years ago; there has not been any relapse, and the patient still enjoys excellent health. The second case is one of chronic syphilitie sore throat, involving all the soft parts: Dr. Langevin prescribed the iodinet internally in the dose of two seruples (atterwards raised to four) daily, an induret gargle, and an ointment containing a large proportion of the same salt, which he directed to be rubbed in night and morning over the right testicle, which was affected with sarcoccle; The patient was perfectly cured in every respeet in three weeks, and has not since suffered a relapse. The third case is one of extensive syphilitic ulceration of the elbow, cured in the internal exhibition of large doses (from four late quoted from a work entitled "Les Cen- ultimate fibre itself,

to eight seruples) of the ioduret of potassium in an infusion of dulcamara. The fourth case presented exestoses of every articulation, besides a swelling on the anterior part of the coronal, and of the cervical vertebra. fifth was a case of syphilitie sore throat of some standing; and the last was an instance of ulcers on the legs depending on a venereal origin. In all these cases the large doses of the salt already alluded to were freely administered, and in every instance were followed by a rapid cure.

Polsosing by Squills .- A man, fifty-eight years of age, was afflicted with general dropsy from insufficient nomishment, anxietpy and great fatigue, unattended by any symptoms of organie disease. From this he was relieved by the use of diructics and bitters, but the com plaint returning, he was induced to have recourse to an old woman, who promised to enre him effectually. In accordance with her directions, he procured some squill cut into small pieces, which he digested for forty-eight hours in nine ounces of white wine. Half this quantity be drank at once, and as it caused violent colic, he thought it necessary to assist its action by taking several spoonsful more, which produced an increase of the colic and severe nausca. These symptoms not having ceased for a moment, after the lapse of twenty-four hours he sent for medical advice; he had then a red and burning face, with cold hands and feet; pulse small and contracted, and the abdomen so tember to the touch, that he could not bear even the sheet over him. He died on the second day in spite of all that could be done for him - From the chemical analysis of the rest of the tineture, it appeared that he had taken altogetoer, five semples of extract of

HEMERALOUIA. Night blindness, says Dr Forty, is eleven times more prevalent in the southern, than in the Northern divisions of America; in other parts of the United States it is almost unknown. In Florida it may be regarded as endemic. The pathology seems to exist in an exhaustion of the power of the retina, in consequence of exposure to strong light during the day; or in other words, vision ceases, because the retina, after having been exposed to a long and brilliant sunshine, is not excited by the feeble light which continues after sunset. The disease is consequently rarely met with, except in the southern latitudes, or those regions in which the ground is covered many months with snow. In Florida, as in the West Indies, the causes productive of it, are, the full glare of a vertical sun in an unclouded sky, and the reflection of the solar rays from the surface of water or from a sandy soil. Its duration in Florida varies from one night to six or twelve months, whilst relapses are frequent. The treatment which is modified in accordance with the accompanying functional derangement, usually consists in confinement to a dark room, the use of emetics and catharties, and the application of enppingglasses and blisters to the temples and nape of the neck; but these remedies, as well as salivacion, prove in many cases wholly unavailing When remedial measures fail in tropical regions among those from Northern latitudes, a return to one's native clime is obviously in-

MIRCIRIAL FRICTIONS, Mr. Toogood, of Bridgewater, gives three cases showing the great benefit of mild mercurial frictions in eradicating those complicated symptoms, following at various intervals, venereal disease Ill-treated. The success was marvellous in cases of great obstingey.

MORTVETTY. - The French papers have of

tenaires," some astounding statements respecting the age artained by individuals in the different countries of Europe. Thus, we are told, that "There have died in England, in the course of the last century, 49 persons who have reached from 130 to 180 years of age! Of those, even reached 134 years, four 138, two 146, four 155, one 158, one 160, one 68, one 169, and one 175." Now, we believe it to be beyond the power of the writer to prove any one of these assertions; to prove that any one man or woman, in England, ever attained the lowest of these ages, or 130 years. We do not, of course, mean when we speak of proof, the go siping nonsense which passes current on such occasions, but such evidence as would be received as conclusive in a court of law, and surely in a country where every parish has its register, the age of a party is a fact very casy of proof. Some years since we were drawn into a controversy respecting the age of a man of the name of Patrick Gibson, of whom a portrait and a memoir were published, setting forth that he was in his 111th year. We proved to demonstration that every assertion from which his great age was to be inferred was false: yet since then, his portrait, with the falsehood deliberately written on the frame, has been placed in the Hall at Greenwich Hospital. Our incredulity on the subject of these Old Gibsons, Old Pairs, and Old Jenkins being known, we have on more than one occasion been sent by friends in search of cases, that admitted, they said of no doubt; but on enquiry, it turne lout that instead of "no doubt" we should read "no proof." parties indeed recollected, or rather professed to recollect, many circumstances which ocentred more than a hundred years before, but in no instance could they recollect where we might procure a copy of their baptismal re-This question is not altogether one of mere idle curiosity; the length of time that men may live must affect questions of annuities insurance, and other like calculations; yet, though every season brings forth new insurance companies, new life tables, new expositions and illustrations of the subject, no writer, that we are aware of, has devoted a single chapter to a eareful investigation of the age which men have attained .- Athenoum.

MICROSCOPIC ANATOMY OF THE BRAIN'-Fontana discovered that the nervous fibres were tubular, the sheath consisting of a transparent membranous cylinder, and the contents, as he supposed, of a gelatinous and consistent humour. By more recent observation it has, however, been established that the nervous matter, or neurine,-which is during life fluid and transparent, the soft, solid, and opake character which it presents soon after death, being the result of coagulation, '-may be distinctly observed with the naked eye in the retina, which, if examined in an animal just killed, is seen to be, as it is in life, diaphanous, whilst in a few minutes it assumes that resemblance to ground-glass with which we are familiar, Professor Valentin, in a course of observations made upon the nerves of living animals, believes that he had detected on the inner aspect of the membranous tube of the nervous fibre a citiary epithelium t H this structure should be confirmed by a more extended observation, it would follow that

· This may be regarded as an established fact because it does not rest solely on microscopic examination for the change.

† This observation is, to a certain degree, corroborated by Remak, who has described the ciliary motion in nerves, but he places it in the sheath of the primitive bundle, or fasciculus, not, as Valentin describes it, within the sheath of the

some kind of motion or current of the neryous fluid is effected by ciliary motion .-Another step has lately been effected, by determining, with the aid of the microscope and minute injections, the disposition of the capillary blood-vessels in the grey matter. How entirely, says Mr. Granger, the prevailing notions respecting the brain would be changed, if, instead of regarding it as a solid body composed of soft fibres, amply, indeed, supplied with blood, but in a manner altogether unknown, we should consider the cerebrum as consisting essentially of an almost infinite multitude of tubuli filled with thid. I say nothing of their supposed ciliary currents, penetrated by a vast number of arterial and venous canals, carrying, in a definite and ascertained direction, the circulating fluids. It is needless to point out the light which views like these would throw on the pathology of the brain, or to show how powerfully they would illustrate the important views of Dr. Abercromby respecting deranged conditions of the cerebral circulation. If caution is required in the case of the healthy organisation, it becomes much more so when diseased structures are concerned. The important discoveries respecting cells have undoubtedly afforded some facts which promise interesting results regarding morbid growths; for when it is known that a cell can, in virtue of its own independent endowments, take up, from a surrounding fluid, peculiar substances, and increase in the manner noticed, so as to give risto the various organised tissues, woody fibre, bone, or musele, we can at all events understand that, owing to some derangement of these processes, morbid matters may be produced or taken up, and abnormal cells generated; phenomena which, according to Müller and others, do take place in carcimonatous tumous, and in tubercle, according to Culliver. It is also probable that the information we have acquired from the physiology of cells will ultimately tend to explain many of the apparently conflicting views of Hodgkin, Crayeilhier, Muller, and others, concerning the respective influence of the blood-vessels and cellular tissue in the production of cancerous growths; for, as there is such an analogy in the laws which govern the first formation of vegetables and animals, it is not unreasonable to suppose that, as in cryptogamic and vascular plants, growth may take place either by the action of cells alone, or by vessels and cells in conjunction; so in scirrhus, fungus, and colloid, the morbid growth may depend on the action and development of cells alone, or in combination with the capillary blood-vessels. It must, however, be confessed, that at present the microscopic investigations of disease have produced but few well-established and generally-recognised truths. Even in the case of morbid fluids where, a priori, we should have expected more satisfactory results, much uncertainty prevails; thus one of the most interesting circumstances to the medical practitioner, the unequivocal distinction, namely, between mucus and pus, is a desideratum yet to be obtained; for not only are there diverse discrepancies in the accounts given of the physical characters of the two fluids, by those who admit a distinction between them, but some eminent authorities, Henle, Barry, and Mandl, state that the globules of pus, and mucus cannot be distinguished from each other.

THE CORDA TAMPANL—M, Guarini adopts the opinion that the corda tympani is not derived from the cranial branch of the vidian nerve, but takes its origin from the facial. He concludes, therefore, that it is, like the facial, a motor nerve. In the second place, he shows by dissection that the corda

tympani is distributed principally to the fibres of the lingual musele, and he thinks that it communicates a motor power to them. To verify this opinion, he performed experiments on animals; striking them on the head, and then quickly making a section of the tongue and the interior maxillary bone in the mesial line. After waiting till the spasms which affected the muscles had ceased, he implanted one of the needles of a small galvanic pile in the anterior part of the tongue, and connected the other with the nerve whose function he desired to ascertain. He found that when the hypo-glossal nerve was galvanized, the tongue was moved forwards and backwards, upwards and downwards, with such rapidity, that the whole organ appeared convulsed. At the same time the muscular fibres in the centre of the tongue remained unmoved. When the needle was applied to the branch of the fifth pair of nerves no movements of the tongue ensued, nor when the glosso-pharyngeal nerve was touched. If the facial nerve was galvanized the tongue was carried upwards and bookwards, then downwards, then again upwards, at the same time undergoing a sort of vermicular movement from the action of the lingualis muscle; the movement upwards and backwards being due to the contraction of the stylo-glossus, the upper part of which receives branches from the facial nerve by means of the corda tympani. These experiments were repeated several times with perfect success by M. Guarini, in the presence of his colleagues. It being doubtful how far the vermicular motion of the tongue might be attributed to the action of the stylo-glos-i muscles, these muscles, together with the stylo-pharyngai and digastrici, and the hypoglossal nerves, were divided, the head having been separated from the body, and the corda tympani and lingualis muscles left entire. The facial nerve being then galvataized, the tongue was no longer carried backwards, but the vermicular movement continued unimpaired. The physiological conclusions which the author draws from these experiments are, that the hypoglossal is not the only motor nerve of the tongne, and he considers that by its influence upon the lingualis muscle the cords tympani is subservient to the articulation of sound.

CREOSOTE IN SEA-SICKNESS. - A gentleman, a great martyr to sea-siekness, had been advised to take the creasore mixture; but it had had an effect directly the opposite of what was intended. On the first dose he was seized with retching. Upon the following day the gentleman became exceedingly sick. He applied again to the reputed specific, when the very same dose that had on the previous day made him soncamish, on this trial almost entirely relieved him. It is worthy of remark (says Dr. Cormack, who relates this incident) that creosote, though excellent in allaying comiting, often excites it when it does not exist. Vomiting is caused by creosote very frequently where the dose is too large.

REMARK VBLE CASE OF ASCITES.—A woman, aged 36, was attacked in 1823, by a chronic entero-mesenteritis, accompanied by marasmus, suppression of nrine, and irregular menstruation. By degrees the abdomen became of enormous size, from the presence of fluid accumulated in the cavity of the petitoneum. The first tapping gave issue to twenty pounds of a lemon-coloured limpid fluid, and M. Lecanus ascertained, after the sinking of the abdomen, that it contained enormous indurations. Ten days afterwards she was again tapped, and so rapidly did the fluid accumulate, that it was necessary to repeat the operation every six, eight, ten, or at the utmost twelve, days. Fifteen years had clapsed in this man-

ner, and tapping had been performed 810 times, when Dr. Lecanus thought of trying compression on the abdomen with pieces of paste-board covered with linen. This remedy employed gradually, at first retarded the accumulation of the fluid; and at the end of six months, during which tapping was practised at more or less distant intervals, it was perceived that the ascites no longer returned. The patient has now been cured these two years, having undergone tapping 866 times during 15 or 16 years. Once only the epigastrie artery was opened; but the hemorrhage was promptly arrested by tents steeped in a styptic liquid, and introduced into the wound made by the trocar.

TREATMENT OF FRACTURES .- Mr. Grantham, of Crayford, publishes some sigacious observations on this subject. He would keep up the action and temperature of the entaneous structure, by the use of hot, stimulating applications, which tend to lessen the pain, and quicken the reparative action of the parts, and would forbid the application of cold to the diminution of power produced by local bleeding near the injured part. " We must consider," he says, "the lowly organized state of these structures, which are only balanced or supported in their normal action or temperature by the power of the exhalent vessels of the skin. Did these lower structures but contain one drachm of blood more than in their normal condition, the result would be inflammation, which would require three months at least to effect a termination by resolution. It is a fact, that excitement of the arteries in the vicinity of an injury, assists much in the restoration of a satisfive action. Only diminish the power of the arteries and exhalents below the natural standard in such injuries, and you deprive the limb of the means of repairing the mischief, and too frequently bring on phleg-monous inflammation or sphacelus."-Mr. G. adds, as a suggestion, that Galvanism applied moderately, and with the foot or head immer ed in hot water, would be useful in regaining the use of the suspended power of a

ODD MINWIFERY CASE .- Mr. Bell, of Burrhead, recently delivering a strong healthy woman of a large female child, had aceasion to extract the placenta, in doing which his fingers were severely pricked. On examining the placents, he found a number of small sharp points attached to it. On more minute examination, its uterine surface was found to be covered with a milky-coloured membrane, which was thickly studded with small points of bone, as sharp as pins, about one-eighth of an inch in length, and about the thickness of a tine sewing-needle. On examining the substance of the placenta, it was found completely filled with these points, but they were of a much larger size, some rather more than two inches long; they were running in every direction, ramifying not unlike the air-tubes in the lungs. The umbilical veins presented nothing unnatural; but the artery, at its termination, was partially ossified. No hamorrhage, but severe after-pairs.

EMPYEMA.—M. Faure wishes to show that in most cases of purulent effusion into the thoracic eavity, paracentesis thoracis is the only means we have of rescuing the patient from almost certain death, and that the operation has been too much neglected.—He asserts that puncture of the chest with a trocar does not expose the patient to the danger of air being introduced into the pleura, and that the wound often closes in forty-eight hours,—that 200 persons die annually, whose lives might be

31st of July,

STRICTURE OF THE LUNG .- M. Bourgery, writing on the relation between the structure of the lung and its functional capacity in both sexes and at different periods of life, gives the measurements of the minute pulmonary apparatus in the adult; and then passes to the micro-copic examination of its texture at different periods of life. He shows that the development of the aerial and sanguineous capacities of the pulmonary apparatus is much influenced by age, appearing to be in inverse proportion at the two extremes of life. In infiney the vasculatory and aerial capacity of the long are very great, and this perhaps, may oceasion the extreme plasticity of the blood at this period. The great energy of the respiration, arising from the full but equal development of the sangnineous and aerial systems, is characteristic of adolescence, and manifests itself by the rich qualities of the blood peculiar to puberty. In the adult the respiratory apparatus remains stationary for some time, but as years go on, the air-cell's partially give way and the blood-vessels become obliterated, and old age ensues with its feeble and impoverished circulation. From these facts the author thinks that, in a general point of view, man at his different periods of life presents an analogy to the two classes of vertebrate animals in which the extremes of the respiratory functions are observed. As he approaches towards puberty the lung is gradually developed, and offering every year larger and larger surfaces to the air, gives rise to a function similar to that of the bird. In old age, on the contrary, the lung is gradually broken up into air eavities of increasing magnitude, while the circulation is diminished in the same proportion; and thus the respiration, both in its real capacity and in the structural changes of the organ effecting it, assumes the characters peculiar to

DETICTION OF ALBUMEN IN HRIVE. -The solubility of albumen in nitric acid, as a source of fallacy in detecting albuminous urine, has, I think, says Dr. J. W. Griffith, been entirely overlooked by writers on nrine. The ordinary method of proceeding is to heat the urine to the boiling point, and then to add a few drops of nitric acid, when, if the precipitate be redissolved, albumen is considered absent; if otherwise, it is regarded as present. When the urine contains albumen in large quantity, the appearances produced by its coagulation are so characteristic that they cannot be mistaken; it is only where there is a mode. rate or small quantity present that any error can be made. The strong acid being generally used, I shall confine my observations to it.-When a few drops of mitric acid* are added to urinet containing a small quantity of albumen. a cloud is immediately formed, which, by agitation, is entirely redissolved: so, after heat, a drop or two of acid added and the fluid agitated, the albuminous cloud disappears; a few drops more added, throw it down again; and a further considerable excess redissolves it. Therefore, the formation of a cloud by heat. which is soluble in a drop or two of nitric acid is no proof that allumen is absent. The value of the nitric acid test depends entirely

Specific gravity, 1-5.

three soldiers on whom he operated in April ing a few drops is not sufficient, moderate quisition, the knackers are bound to remove and May last. They had been reduced to a excess ought to be used. The quantity of dead animals, in conformity with the preceding very dangerous state by the effusion. One died acid required for the above-mentioned second a few days after the operation, but the other solution is, on an average, at least as much as two were still alive, when latt heard of on the the bulk of the nrine used; so that by always using considerably less than its bulk, this chance of error may be avoided. The cloud of phosphates precipitated by heat is very readily. dissolved in a small quantity of acid; and by adding a few drops more it is not again precipitated. This then, would readily distinguish the phosphotes from albumen.

MINTINGS FOR THE ENSUING WIEK,

1, Word et. Mordieal Societies of Fondon, S.F.M.

Wolmerd et. We thinader the pital Medical Society, S. Fondone il Sonn G. S. J. M.

King's College Hospital Society, S.F.M.

S. Saturday, Mathematical Society, S.F.M.

MEDICAL NEWS.

LONDON ROYAL INFIRMARY FOR CHILDREN. -A vacancy has occurred in the physicianship of this institution by the retirement of Dr.

French.—A most satisfactory decision has heen recently adopted by the administration of hospitals in France, with regard to the treatment of idiotic children. Our readers may, perhaps, remember that M. Segnin, a young philanthropist, who devotes himself to the education and instruction of idiotic infants had proposed to submit to his method a certain number of individuals taken out of the asylums. The administration of hospitals on the report of M. Orfila, acceded to his demand. Twelve children were entrusted to him from S to 16 years of age, taken from the hospital of Lucurables, and who were considered to be in a state of hopeless idiotey. None of them could read or write, several had with difficulty accustomed themselves to use a few words, while the others emitted only inarticulate sounds; some were epileptic, and three or four were subject to constant convulsive movements. After a twelvemonth's treatment, M. Seguin has presented these children to a commission, composed of MM. Fouché, Halpher, and Orfila. These gentlemen have become satisfied that all these children are now able to read, and some of them can write from copy; that almost all speak distinctly, and that they answer correctly to the questions put; some can perform addition, substruction, and even multiplication. They have also become physically improved; so that these children who were but an encumbrance to the house, are now capable of great service. The administration considering these results, has decided that M. Seguin, who hitherto had been authorized merely to make trials, should have an express anthority for continuing them upon a larger scale, and should, for this purpose be lodged, boarded, and remunerated. Λ special allowance will be demanded for this object by the general administration of this department. We hail with pleasure the commencement of an undertaking of such vast interest,

The Prefect of Police of Paris has lately issued a new ordinance, dated the 15th of Sept. for the regulation of knackers. They are in future to have closed earts, so as not to allow their contents to be seen; these vehicles are, moreover, to be so constructed as not to allow the escape of any liquid. Animals destined for the knacker are not to be allowed to enter Paris. No animal is to be slaughtered within the city. The knackers are all to live outside the barriers. All animals dying in the capital me to be removed during the night, between the hour of midnight and six in the morning Animals known to be affected with contagiou diseases, are not, nuder any pretext, to be sta-

prolonged or saved, and relates the cases of upon the proportion added. The mere add- tioned within the city. Lastly, upon any reregulations.

> The same magistrate has also issued another order which essentially concerns the preprietors of hotels, the chiefs of establishments, shopkeepers, &c. who employ gas in lighting their houses. This order points out the care and precaution to be used with gas fittings, so as to guard against accidents. It especially directs the coreful ventilation of places in which gas is burned, the employment of stop-cocks which shut with precision, and which should the frequently oiled; besides these stop-cock at each barner, it enjoins a principal cock which is to be turned off as soon as the lights are put ont. Immediately that a smell of gas is perceived in an apartment, the doors and windows are to be thrown open, and notice directly given to the gas-fitter belonging to the company. Lastly, when an escape of gas becomes ignited, they are to endeavour to extingnish it by wetting a cloth, and quickly applying it upon the inflamed jet. That nobody using gas shalld forget these directions, the various companies are ordered to have them printed at the back of their monthly receipts,

St. Thomas' Hospital.—On Friday evening, the 21st inst., the first microscopic entertainment for the session was given at the great hall of the hospital. The business of the evening was opened by an address from Mr. Grainger, by whom the chair of physiology in this school is now filled, on the state, and amount of our present knowledge, as developed and established by microscopic research. summary survey was taken of the more important and recent contributions, with which the German observers had enriched the science of organization. Those of Schleiden and Schwanu on the relations of the cytoblasts and cells in the production of all forms and variety of orgamic structure, and the remarkable identity which their labours have proved to exist between the laws which regulate these primordial forms of living matter in the animal and vegetable kingdom-were introduced as the highest in value of any with which the domain of physiology had been evidenced in modern times. In connection with the subject of uncleated cells, Mr. Grainger passed a high enlogium upon the investigations of Dr. M. Barry into the occult and early changes which mark the commencing development of the new being. It was proved by his labours that the first discoverable step in this process, consists in the formation of a nucleated cell, reells, which correspond in character with those which the German observers have shewn to constitute really the origin of all forms of structure. The interesting subject of the several phases which the spiral variety of vascular tissue was capable of assuming, were most lucidly explained by the assistance of diagrams. He alluded particularly to the fact that the annulated, the dotted, the pitted ducts observed so abundantly in vegetable tissue, were traceable to the spiral form as a common origin. It was shewn also that it was quite philosophical to admit great analogy as regards the plane and process of formation, between these spiral structures of vegetables and the tracheary apparatus of insects, birds, and mammalia. The last subject noticed was that which by fir excited the greatest curiosity and interest; it related to the minute structure of the muscular fibre of voluntary motion. A clear and simple exposition of the prevalent and conflicting views was given of that first cutertained by Mr. Bowman, which supposes the primitive fibres, to be made upon flattened cells, or discs.

[†] I suppose the operator to be using about six drachms of urine.

placed in contact upon their flat surfaces, or that, secondly, maintained by Dr. Martin Barry and Dr. Leeson, according to which it was conceived that the same primitive filament was composed of a double spiral. He re-marked that this formation had been fully made out by Dr. Leeson, six months before the observations of Dr. Barry. He did not aftempt to decide on the merits of these two views stating from the evidence of Dr. Leeson's preparations more particularly, that there could be no doubt as to the existence of the double spiral in the filament, whatever its nature may be. In the theatre of the hospital, the phenomena of polarisation were beautifully exhibited by Dr. Leeson, by means of the oxygen-hydrogen-microscope. In addition to a great variety of other highly-interesting objects, we observed it as a pleasing triumph to microscopic science, that the long table of the hall was crowded with lamps and the most valuable microscopes, giving to the room a very brilliant and imposing effect.

Among the company present, which consisted of nearly six hundred persons, comprising many German and metropolitan professors and men of science-were:-R. H. Pigeon, Esq., Treasurer of Christ's Hospital; James Bentley, Esq., Treasurer of St. Bartholomew's; the Prince of the Druses, Beyrout, Antonius G. Aumric, Beyrout; Le Capitane Nagy de Golantha; Professor Mitcherlitch, Berlin; Professor Capari; Dr. Dieffenbach; M. le de Stoll; Sir George Lefevre; M. Williams, Esq., M.P.; Professor Brand; Professor Cooper, — and many other distinguished men. The company did not separate until a late honr. Tea and eoffee were liberally provided in the committeeroom, adjoining the great hall.

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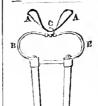
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DR. STEGGALL continues his LECTURES DR. STEGGALL continues his LECTI RES and FYMINATIONS for the College of Surgeous and Apotho (in 'Hall, also for the other Wednest Boords. He fee are for an unbanded period, con exposally papils would derive increased hem in the enterior, it the romain means of other winds; the college are related to describe and many their entire resolution, and feel are appeared by the advances of the content of the resolution, the first deviation of the species. Hours of atten-tual research of the deviation, and Sis () Nine, p.in, in Chambers, at Nin 17, Bloomsburys, species.

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THE MEDICAL TIMES

A Hournal of English and Foreign Medicine and Medical Affairs.

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LONDON, SATURDAY, NOVEMBER 5, 1812.

FOURPENCE,

For the convenience of Subsculiers in remote places, the World's Numbers are restrated in Monthly Parts. Githed in a Wrapper, and torwarded with the Manazine .—Orders for the Stumped Edition [loss lad per Half year, Post-free in a France, [are received be one Book eiler or Newsman, or may be directed to J. V. Charac, Cap., at the Macheal Times Office, (late Lancet Grace). London.

SUMMARY

Cases of Peritoneal Section Course of Lectures on the Theory and Practice of Medi-cine, by C. J. Williams, M. D.... Course of Lectures on Operative Surgery, by J. Notting-

Periscope of the Week
TO Correspondents.
OUR LEADERS—MI. Markinnon's Bill for preventing
futramutal Sepulture—Dr. Hull's Pedantry and Policy
Gore's Ammonical Solution of Ergot of Rye—Mr Smith
on Hydrocele complicated with Hernon-Humoralis...
Two Cases of Fits by Dr. Aldis—Mr. Thornton on Deafness—Hydriodas. Potassy...
Death from Tartar Emetic—A Case of Tetanus Treated
Successfully by Unium.

Successfully by Opium

CASES OF PERITONEAL SECTION FOR THE

EXTIRPATION OF DISEASED OVARIA BY THE LARGE INCISION FROM STERNUM TO PUBES,

SUCCESSFULLY TREATED.

By CHARLES CLAY, Member of the Royal College of Flavicians, London; of the College of Surgeous, Edudated, and Lecturer on Medical Jurisproduces, &c. Piccadilly, Manchester.

(Continued from page 62.)

CASE THE SECOND.

OVARIAN EXTIRPATION BY THE LARGE INCISION.

ELIZABITH BESWICK, act. 57, applied to me on the 27th of Sept., 1842, in consequence of the abdomen being enlarged by dropsy. performed paracentesis abdominis on the 30th of Sept., when twenty-five and a-half pounds of fluid were taken away, of a true ascitic character; and it was not till the fluid was discharged, or nearly so, that I discovered in the left iliae region an ovarian tumour about four pounds weight. I was the more surprised at this, as neither the history of the case, nor its appearance before tapping, led me to expect it. The tumour, as well as the fluid deposited, had both been produced within the last ten months; previous to that, no tumour existed that she knew of. She had suffered much from inconvenience, and oceasionally from pains about the umbilious. She had borne nine living children, and does not recollect receiving any injury by blows, falls, &c.; her health had generally been good; she was low in stature, and much emaciated within the last six or eight months. The tumour occupied the left iliac region, and as the abdominal parietes were very flaccid after the water had been drawn off, its character was distinctly visible: -it appeared circular, rather flattened, with a long pedicle, and, though moveable, the parietes in front below the umbilious were firmly attached to it for the space of two square inches (an adhesion of some standing.) The tumour felt hard and heavy for its size, consequently, I concluded it to be a solid mass, or nearly so; this probable solidity, and its firm adhesion, at once convinced me that it would be impracticable to extirpate it by any other mode than the large incision. In order to allow thewound caused by tapping to heal, I fixed on Friday the 7th of October, at half-past three, P.M., for the operation; the preparations for which were conducted much in the same way as in the case of Mrs. Wheeler, and therefore need no repetition.

On the evening of the 6th I gave her ten grains of the inspissated ax gall, which brought away a copious motion before bed-time without any uneasiness. Five grains more were given early in the morning of the 7th, and another motion was had before noon, with a free and copious passing of urine. She again passed her urine freely, immediately before the operation. stretching of the adhesions, but more parti- opportunity of ascertaining its peculiarities.

menced the operation in the presence of Dr. Radford, Mr. W. C. Vandrey, Messrs J. J. & G. Southam, surgeons, and Mr. Higginbottom, nephew to Dr. Radford,-Pulse, before the operation, 70.

OPERATION. As paracentesis abdominis had been previously performed, and the tumour was of smaller dimensions than Mrs. Wheeler's, the first incision extended from about two inches above the umbilion: to the pubes, or nearly ten inches in length. The parietes of the abdomen were so thereid that more difficulty occurred in making the first incision, and in dissecting through the peritoneum, than in the first case, where the same were distended. No somer was the tumour exposed than adhesions presented themselves in every direction. In the diagnosis which Dr Radford and myself had formed of the case, I fully expected an extensive and long standing adhesion to the anterior of the tumour, immediately in the vicinity of the umbiliens: but from the mobility of the tumour in every direction, (save the exception mentioned,) we thought it pretty free elsewhere. In this we were deceived: adhesions were found in almost every part remarkably strong, and only to be separated with the scalpel. There was also a decided difference in the character of the adhesions: those attached to the parietes were broad and firm in their attachments, whilst the connection with the viseera was by numerous long fibrons hands; it was evidently their length and adhesion to the moveable parts that gave the tumour the mobile character it had. The pedicle, too, being long (as I had anticipated) facilitated the movements of the tumour; the pedicle was broader and thicker than in Wheeler's case, and when cut through, one of the cysts discharged about four pints of fluid. In this instance I passed a strong double ligature through the central expansion of the pedicle, and tied it both ways; thus seeming it by two ligatures, which appeared to be quite sufficient to secure the vessels of the pedicle from pouring out blood, as they did in Wheeler's ease, were they had to be separately tied. The adhesions were overcome by the sealpel, and their number was more than expected. The whole blood lost in the operation was trifling, - certainly not more than two ounces. The uterus (with the rest of the viscera) was perfectly healthy; the intestines not in the least distended, with either flatus or feecal matter, and in no way impeded the operation-a circumstance which I again attributed to the effects of the inspissated ox gall, which she had taken the night before. The parietes were secured by seven interrupted sutures, with straps of adhesive plaister between, side straps, with pads of linen, and bandages over the whole. My patient was quite equal to the task she had undertaken: searcely a word fell from her lips indicative of pain,-on the contrary, she replied to any question with great composure, and drew comparisons between the sufferings of parturient efforts and the operation, - concluding that she had had worse labours, as to suffering pain, than the present operation. After the operation she complained of pain in the left iliac region and the loins, evidently owing to the

On the afternoon of the 7th, I com- cularly the pedicle. The whole time consumed in the operation was about ten minutes, and in about twenty-five minutes from the commencement she was placed comfortably in bed; and, what was most extraordinary, the pulse had scarcely varied a single stroke from what it had been for the last two days. I gave her a draught with three-fourths of a grain of mur: morphine, with one ounce of camphor water, and left her very composed, if not really cheerful. Before I proceed with the details of the ease, I will briefly describe the tumour itself, as some very important circumstances are connected with it.

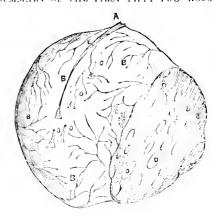
DISCRIPTION OF THE 1PMOUR.

It will be recollected that paracentesis abdominis had been performed in this case, previously, and the amount of twenty-tive poundand-a-half of fluid of the true ascitic character had been drawn off, and it became of importance to know of a certainty if this fluid was really ascitic or had been contained in the ovarian sac. The form of the tumour was an oblate spheroid, and when perfectly emptied of its contents the solid part weighed very nearly five pounds; it was composed of a white tough membranous bag, capable of holding about four joints, and a flattened round solid mass, the cells of which contained various matters from the consistence of pas to that of cerate, and of considerable variety in colour. The interstices of the cells were of a hard cartilaginous structure. Inside the large membranens bag, hung from its under surface a pendulous mass, with a narrow neek, about the size of a hea's egg, or rather larger, and of an irregular shape, very similar to a portion of brain enclosed in a thin transparent membrane, which must have floated loosely in the fluid of the sac. The tumour with the membranous bag had very much the appearance of a large placenta with its membranes nearly entire, and its form and arrangement exactly similar. On examining the membranous pouch very carefully, I could find no puncture but the one by which the sac had been emptied at the pedicle; and as its capacity was not more than for four or live pints of fluid, this together with the apparently thick myielding character of the walls of the sac, convinced me that it had never held more than from four to five pints; consequently, the twenty-five pounds and-a-half of fluid previously discharged were decidedly that of ascites, in no way connected with the eyst, but produced by its pressure. The connection of the tumour anteriorly with the parietes was to a considerable extent, and remarkably firm, completely surrounding the umbilious, including the remains of the umbilical chord; in cutting through it, the part was hard, as a piece of cartilage, and not easily divided; the fibrous bands, connecting the tumom, with the omeu-1mm, intestines, &c., were in many places two inches in length, and very strong, (no doubt of long standing); they were arranged in groups of three or four together, most of them about the thickness of thread, but one or two were broad and flat like narrow tapes. solid portion (as well as the membranous cyst of the tmnour) was beautifully injected with blood vessels, both internally and externally. As the contents of the sac were discharged at the conclusion of the operation, I had not an

RECORD OF FIFTY-TWO HOURS AFTER OPERATION osELIZABETH BESWICK.

			171	11711111111	II BESW	1010.			
OPERATION. 4 o'Clock P.M. Oct. 7th, 1842. Eriday.	S o'Clock P.M.	11 o'ctock v.n.—7hours after operation.	5 o'chek v.M. Oct. 8th. 13 hours after.	11 o'clock A.M. 19 hours after.	4 o'clock P.M. 24 hours after.	10 o'clock P.M. 30 hours after.	5 o'clock A.M.—Oct. 9th 37 hours after	10 o'clock, A.M. 24 nours after	8 o'elock r.y. 52 hours after.
Temperature	68	70	70	68	70	70	70	70	70
Pulse	76	80 Soft.	80 Soft.	8 Soft.	Soft.	80 Soft.	S6 Soft.	86 Soft,	90 Soft.
Tongue	Clean and moist.	Clean and moist.	Clean and moist.	Clean and moist-	Clean and moist,	Clean and moist.	Clean and moist.	Clean and moist.	Little furred.
General Cur- face	Moist and warm.	and	Moist and warm.	Moist and warm.	Moist and warm.	Moist and warm,	Moist and warm.	Moist and warm.	Moist and warm,
Paín	None.	None.	None.	None,	None.	None.	None.	None,	None.
Light headed- ness.,,	None.	None.	None,	None,	None.	None.	None.	None.	None.
Cough	None.	Nones	None.	Xone,	None.	None,	None.	None.	None.
Shivering	None.	None.	None.	None.	None.	None.	None,	None,	None,
Urine	None.	None,	Twice, naturally \$xiv.	Twice, naturally 5 vi.	Once, naturally 5x.		3 Times. naturally 5 xxii.	Twice, naturally. $\tilde{\mathfrak{Z}}$ xii.	Twice, naturally.
Motions	None.	None.	None.	None,		None.	None.	None.	None.
Thirst	None.	None,	None,	None.	None.	None.	None,	None.	Little.
Flatus	None,	None.	None,	None.	None.	Little.	None.	None.	Little.
Respiration	Free.	re,	Free.	Free,	Free.	Free.	Free,	Free.	Free.
Sleep	20 min.	45 min.	aş hours.	15 hour,	1½ hour.	2 hours.	3½ hours.	2 hours.	2 hours.
Cold	None.	None.	None.	None.	None.	None.	None,	None,	None.
GENERAL RUMARRS. The diet is to be understood as the same as in Mrs. Wheeler's rase.	There had not been the slightest coldness, or shivering—The pain had left the lobs and iliae regions.—Had slept soundly 20 minutes, and smoked a pipe of choose.—Polse had rison	Had had three sleeps, amounting to 45 minutes—Pulse soft and compressible.—Felt as though she could pass her water naturally.	Her sleeps had been very sound—Passed her water with great case—Pulse remained soft—Took the panada and gracd well, and had smoked another pipe of tobacco.	Pulse very soft and compressible—Has taken her diet freely—Enjoyed her pipe, and felt perfectly free from pain—Simple diet continued.	Expressed herself very comfortable—Felt as though she would have a motion, and complained of heing hangry—No alteration in the diet.	For the first time felt a sensation of wind in the bowels—In every other respect well—Diet continued—Gave her 10 grains of Inspissated (fall at b el-time.	Passed a very comfortable night—Flatus not been felt since last night—Diet continued.	Continues well—Diet continued.	The congres for the first time, a little furred, accompanied with a little thirst and flatus.—Gave her five grains of Inspissated Gall.

The grass amount of matter removed was: ascitic fluid, 25) lbs.-contents of cyst, 4 lbs. —cyst[and solid substance, 5 lbs,—total, $34\frac{1}{2}$ lbs. SUMMARY OF THE HIRST FIFTY-TWO HOURS



AFTER OPERATION.

Before this, my second operation, I had concluded it searcely possible that any case of such importance and peculiar liabilities could have progressed more favourably than in the ease of Mrs. Wheeler; but, certainly, the present as far exceeded the first case, in the rapid progress of its recovery, as it did in having worse prospects to contend with in the beginning. The patient was older by many years, the system equally worn down numerous adhesions of a very firm nature to overcome, together with an extensive ascitie deposit,—and yet it is impossible to look at the above tabulated 52 hours without surprise, when all these circumstances are considered.

The Temperature was kept nearly the same throughout, as in the first case, but in accomplis'ing this, fires had to be oceasionally made

as the weather was colder.

Pulse,—Before the operation the pulse stood at 70. After the operation it was counted by Dr. Radford, and found to be the same; a circumstance very remarkable, and only to be accounted for by the small quantity of blood lost during the operation, and the imperturbable coolness of my patient, who neither moved a muscle, nor expressed herself in the least as suffering from pain. During the fifty two hours it will be observed it advanced to 90, but always remained soft, and easily compressible, bleeding therefore was not resorted to, which, in consequence of her age, I was not sorry for.

Tongue,-During the time was clean and moist, except at the last visit on the table, when it showed itself slightly furred, probably owing to the bowels not being yet moved.

General Surface. Was never otherwise than warm and moist, with gentle perspiration.

Pain. - For about half an hour the pain in the left iliac region continued, and also in the loins, but on giving three-fourths of a grain of mur. morphine it disappeared, and did not occur again.

Light Headedness,-Never occurred.

Cough. - There was not any.

Shivering.—None.

Urine. It was surprising how easily she passed urine by her own efforts, so early after the operation, and continued to do so throughout, amounting nearly to seven pounds in 52 hours; the eatheter was, therefore, uncalled for,

Motious. - As yet none, but as flatus had troubled her a little towards the conclusion of the above table, a motion was expected.

Flatus,-Throughout was too tritling to dwell

Respiration.—Never in the least disturbed. Cold.—This sensation was never experienced

even in the least degree.

Sleep .- The pain in the loins and left iliac region, rendered it necessary immediately after the operation to give three fourths of a grain of the mur, morphine The pain soon left and a sound sleep followed. The number of separate sleeps, their length, and soundness, amounting to upwards of seventeen hours in the fiftytwo, no doubt facilitated much, her rapid and satisfactory recovery.

In the next table I shall dispense with those items of the last table which did not occur again, as pain, light-headedness, cough, shivering, flatus, respiration, cold.

All my medical friends who visited the case, were surprised at the progress of recovery, and the perfect absence of dangerous symptoms. The next table traces the case up to the first dressing of the wound on the fourth day.

FROM THE CON-

CENERAL REMARKS.	us 	P	st	ions	ē	eral Sur-	gue		perature.	The fnd of the 4th day and 1st dressing.
Felt a little smarting and itching in the line of the wound—felt very lningry—diet continued.	None.	5 hours.	None.	None.	3 times 5xviij.	Moist & Warm.	Little- furred.	90 Very soft	69	5 o'clock, a.m., Oct. 10th — 61 hours after operation.
Continued remarkablywell—ordered a clyster of gruel, with olei ricini, olei terebinth, ā ā 5 ss. to be repeated if necessary.	None.	30 minutes.	None.	None.	Twice Saii.	Moist and	Little furred.	90 Very soft.	68	12 a.m.—68 hours after.
Two copious metions followed the clysters—felt very hungry—no—alteration—in diet.	None.	12 hours	None.	2 after elyster.	3 times Žaviij.	Moist & warm.	Clean & moist.	90 Very soft	9	10 p.m.—78 hours after.
Had passed a very com- fortable night—ordered a little weak mutton broth for dimer—diet, in other re- spects, as before.	None.	6 hours.	None.	None.	Twice Zxii.	Moist and warm.	Clean and moist.	100 soft.	89	9 a.m., Oct. 11th— 89 hours after.
Dressed the wound, re- moved every other suture— woundhealed its whole length except where the ligatures came out.	None.	None.	None.	None.	Twice 5xii.	Moist and warm.	Clean and moist.	105 soft	65	12 a.m.—92 hours after.
The pulse, though high, was very soft, no pain or un- easiness—former diet conti- nued without the broth.	None.	None.	None.	None.	Once žvi.	Moist & warm.	Clean & moist.	110 Very soft	68	5 p.m.—97 hours after.
				795.3.		1				

(To be egationed.

COURSE OF LECTURES ON THE THEORY AND PRACTICE OF MEDICINE,

Delivered by C. J. B. WHLLIAMS, W.D., F.R.S., Professor of the Practice of Medicine, and of Chuical Medicine, at University College.

GENTLEMEN,-Lymph is very rarely thrown out upon mucous surfaces; pus is the secretion to which inflammation renders them peculiarly liable. It is on scrous membranes that lymph is usually deposited, and although pus is sometimes found also on them, yet its occurrence is far less common than on mucous membranes. When lymph is of a low character, it bears a strong resemblance to pus, and is indeed, often a concomitant production. In these cases, the secretion is liquid, and presents a greenish appearance; it is called purnlent lymph. The great facility with which pus is formed upon mucons surfaces, would lead us to expect that there must be considerable analogy between pas and the ordinary inucus that lubricates the mucous membrane; and this appears to be the fact, for it is in many instances, most difficult, and I may say impossible to distinguish clearly the two products. The former, viz. pus, passes gradually into mucus, which may indeed, be obtained from pus, by the addition of salt, an alkali, and some carbonic acid. Both are modifications of albuminous matter, and both contain a certain amount of fat. It is easy to discriminate between pus and mucus when in a pure state, the former being free from all viscidity, and readily miscible in water, while the latter is remarkable for viscidity and for its not being miseible with water. Pus is often found to be thrown out upon scrous membranes when air has gained access to their cavities. The formation of pus frequently depends upon what is called the purulent diathesis. Many persons are accustomed to associate invariably with the existence of pus, a greater or less degree of destruction of parts; but this is an error, because pus may undoubtedly proceed from an ertire surface without any destruction occurring.

against concluding, that the lungs must necessarily be diseased because the sputa may contain traces of purulent secretion.

It was found by Hunter, that when pieces of flesh were placed in pus they became dissolved. It was concluded from this fact, that pus possesses a powerful solvent property; and that it consists, in fact, of portions of dissolved tissues, which it converts into itself; but the solution has been greatly exaggerated. Pas is not formed by conversion into itself, for it may, as I just stated, be effused from entire surfaces; it is in reality, a modiffed secretion. There is beyond all question frequently increased absorption, and removal of tissues adjoining the locality of pas; but then, this can be accounted for on other grounds than the solvent properties of pus itself, for example, pressure upon the surrounding parts giving rise to defective circulation, would be sufficient reason why cohesion should be diminished and the absorbent action be augmented. Sometimes the diminished cohesion precedes the formation of pus, and sometimes occurs alone, thus causing softening. Absorption on the surfaces of the body would be called alceration. Ulceration signifies the removal of textures; and suppuration signifies the formation of This formation takes place chiefly in the arterial portion of the capillaries; it is here also that granulations are formed and lymph is effused. The process of suppuration taking place in closed parts constitutes, as you know, abscess. Anything tending to localize inflammation, such as the application of foreign bodies, &c., tends to produce suppuration. Some have supposed that pus is formed in the blood, and escapes through the parietes of the vessels. I have never been able to detect this transition, nor do I think it at all reasonable. The greater the complexity of a mucous membrane, the greater as a general rule is its tendency to become softened.

Another phenomenon of inflammation is in-

feel hotter than parts in their natural condition : this change of temperature is manifest, both to the sensation of the patient, as well as to the hand of the attendant. The question will arise, whether the increased heat is due to the greater quantity of blood determined to the part, or whether it is owing to some change effected in the blood itself? Erysipelatous limbs sometimes rise in temperature to 105 deg. Sometimes in inflammation, injury is done to the vessels permanently, and death of the tissues is produced, constituting gaugrene. This state may arise,-Ist. From destruction of the vessels, as by extreme cold -2d. From pressure by effused matter or other circumstances, as in Hernia and intressusception-3d. A depressed state of the circulation may cause gaugrene, as where blisters have been applied in low fevers, especially when situated at a great distance from the heart. It may also arise where acupunctures have been used in cases of dropsy—4th. Obstructed arteries as from ossific deposit in their coats may cause gangrene. They may for a long time support the parts under ordinary circumstances, but if any state should arise requiring reaction for which determination of blood is necessary, it is clear that if the obstruction be so great as to prevent such determination taking place, the part will be meable to resist, and as a consequence, must die. -5th. Another cause of gaugeene is congestion. This is proved by the slonghing of the back that so frequently occurs in long illnesses, where the recumhent posture has to be maintained.—6th. Local causes may also give rise to gangrene, as poison of serpents, punctured wounds, &c. But a part may die without actually becoming gaugrenous. As soon as vitality is degraded by impeded circulation, the parts are acted upon by the vessels and removed. They cannot resist the absorbent action; there may, in this case, be no gangrene, but simply softening and removal.

Again, if the part dead is of small size there may be ulceration of such dead part itself: but if the part be of a large size, the ulcerative process takes place round the edges of the mass, and it becomes separated from the surrounding portions as a slough. Still there is no gaugirne necessary; it implies decomposition and patriolity. But if the mass is too large, and is not separated rapidly, it becomes decomposed and gaugrene results; this change is greatly hastened by heat, moisture, and exposure to the air. The death of a part thus existing may be productive of most serious constitutional mischief, by the absorption of the decomposed and putrid matter by the surrounding vessels; this will give rise to the supervention of typhoid symptoms. If the system i strong the surrounding vessels become the seat of inflammation, attended by the effusion of lymph, which stops the progress of the injury, and thus a line of demarcation is established; the lymph thus effused blocks up the vessels, so that the communication between the part decomposing and the rest of the system is effectually interrupted. When a portion has become completely dead it is said to be sphacelated, and in this condition the blood therein contained is changed to a black colour. The chief characteristic of gangrene is the fetid exhalation.

The principal mischief attending inflammation appears to consist in the throwing out of nutritive matter in the wrong places, or in greater abandance than nature requires. I have now pointed out to you the leading facts with regard to the nature and local consequences of inflammation, and we shall proceed to notice some other circumstances connected with it in relation to its influence upon the system generally.

The causes of inflammation are mechanical, chemical, and vital irritants; these may be called treat causes. An example is found in the case of a calculus in the kidney, which by the local irritation may give rise to the occurrence of inflammation. Again, an obstruction existing in the alimentary canal may, by the local injury effected, cause the supervention of inflammatory action. It usually happens that the local results are in proportion to the local cruses; thus the size of the calculus and the amount of obstruction would materially influence the degree of the inflammation produced. When a local irritant has been ope-It is on this account very important to guard | creased heat. It is well known that inflamed parts | rating for some time, the action of the heart

becomes excited in frequency and force, and this organ then reacts, and especially upon the part that is the seat of the inflammation-the circulation through the whole body becomes considerably augmented. It will be asked how the irritation is communicated to the heart? We must attribute its increased activity partly to its reaction after a state of collapse, and partly to irritation transmitted through the medium of the nerves. In persons of nervous temperament this action is observed to be trongest. But inflammation may be produced by other causes than those that are strictly local,- it may arise from constitutional causes. External cold and heat produce internal inflammation, by producing great constitutional disturbance, out of which arises the local mischief. The first symptoms that occur will probably be chilliness, loss of appetite, marca, vomiting, constipation, and depression of all the functions; during this time congestion is forming in some internal part, and hence it is called the congestice stage: these symptoms may either precede or accompany local inflammation. In a few hours reaction takes place; the vessels transmit the beart's energy more powerfully in consequence of their dilutation, this reaction, or state of excitement following the depression, is called the hot stage of the fever, and it is during this stage that the local inflammation is usually developed—the excited heart backing, as it were, the circulation through the affected vessels. Again, we find an example of inflammation arising from a constitutional cause in the case of pneumonia following asphyxia; in this state you know that the lungs are greatly congested and their function interrupted :- now if reaction occurs during this congested condition, the congestion becomes converted into inflammation, and thus pneumonia is determined. This state of reaction operating through the whole system constitutes what is known as inflammatory fever, the most remarkable symptom of which appears to be the increase in the action of the heart: during the de-cline of inflammation the pulse becomes much ·ofter, in consequence, of course, of the heart's action being diminished. A brief description of inflammatory fever would be coldness and depression. fell wed by excitement and heat. Not only is the action of the heart augmented, but the whole vascular system and its functions (secretion, absorption, &c.) are affected also, and sometimes to a very considerable and serious extent. We have abundant evidence of the derangement that is produced in the symptoms that present themselves: these are chiefly heat and dryness of the skin, nausea, restlessness, thirst, high-coloured and scanty urine, constipation, clamminess of the month, with an unpleasant taste and furred tougue: also loss of appetite and an arrest of the gastric secretion; so that if food were taken it would remain undigested in the stomach, and be productive of increased irritation. If any nicers should be present upon the surface of the body their discharge is very frequently diminished during inflammatory fever, and it is even sometimes entirely stopped. In addition to the symptoms already stated are the affections of the semution, which becomes morbidly increased in certain parts, causing uneasiness and pains; also, intolerance of light and sound, sparks thying before the eyes, and noises in the cars, constituting tinnitus aurium. The motor power is unsteady. The mental and hence tremors are often pre-ent. faculties are also weakened; and delirium is by no means involution. The increased heat is a constant feature, and is owing, in a great measure, to the diminution of the per-piration, although it does not at all necessarily follow that because perspiration is profuse great heat will not also exist. All the functions are not equally affected, although the whole circulation is increased. The arteries are in a state of great tonicity, implying rigidity of tube, and, therefore, the pulse is hard; it is in consequence of this rigidity that the secretions are dimini hed. The equillaries are contracted; this contraction was, as I have previously mentioned, a scribed by Callen to spasmodic action. There is no evidence of sperm amounting to obstruction.

PRIVATE COURSE OF OPERATIVE SURGERY.

By J. NOTTINGHAM, Esq., Member of the Royal College of Surgeons of London.

LUCTURE IIL

To many of you, gentlemen, the taking up of a bistoury, and the making of a cut or incision, might appear to be what is called a very easy matter, requiring no great surgical skill or previous preparation. Such an idea, however, of this elementary part of surgery, should be immediately banished from your minds; for, in truth, the doctrine of incisions, if fully detailed, and in every part investigated as much as it deserves, would form a very considerable portion of the science of practical surgery.

I do not intend by this prefatory remark to persuade you that the study we now enter upon is fraught with any uncommon difficulty-it is, however, my wish that you should regard it as one of considerable importance, for it bears upon nearly all the surgical operations of a serious nature, so that the rules to be observed as relating to it, are of every day-of constant application.

The study of the incisions practised for the removal of limbs, will be deferred until we consider the subject of amputation; so that, at present, it is for the most part what might be called minor incisions of which we are about to speak.

Before the surgeon touches his patient with the point or edge of a entting instrument, he should take care to place himself in a favourable position with regard to that part of his patient's body on which he is about to operate, so that he may neither feel, nor seem, awkward during the performance of that which has to be done; operator should be satisfied, before-hand, that the sufferer cannot, or will not, start from the posture which has been chosen as best suited to the operation; and the former condition of this precaution should always be preferred to the latter, where children or undecided people are to be dealt with. In such cases, if one limb be the subject of operation, the other three may be confined in the folds of a sheet or long towel. Where any part of the face or neck is operated on, the child should be completely rolled in a strong sheet, or blanket, as the hest means of preventing those sudden starts of the limbs, or writhings of the trunk, which may arrest or materially disturb the progress of delicate inci-sions. These precantions I have often found valuable during the have-lip operation; and, also, in one case of the ligature of the common carotid artery, in a very young subject.

It is not often desirable to tie the patient hand and foot, except in the operation for stone; but security against starting should always be obtained in some way or other, wherever an incision is about to be made, except in cases of mere puncture, or where the sudden and momentary plunge of a bancet achieves all that is required.

If an operation consist of a simple incision, to be done at once, as with the bistoury, the preparation of the instrument is easy; but if it be so far complicated as to require many incisions, and the employment, perhaps, of more than one or two in-struments, these should be ascertained by the surgeon himself, beforehand, to be in good order, the blades of knives clean and well-polished, their points sharp, their edges keen, and set in the right direction; the joints of seissors and forceps, moving easily and freely, without grating on the one hand, or over-slackness on the other, and their edges and points attimed to their office. struments, during the operation, should be placed near to the enregion, and, if possible, within his reach, that he may lay hold of those he requires, and thus render himself independent of looker on, who, to use the words of a great master of the art, in nine cases out of ten, owing to anxiety, or enriosity, harry and agitation, hand any thing but what may at the instant be required.

The patient prepared - the instrument prepared the surgeon prepared the part to be operated mon mun al o be prepared, before the knife approuche it. Where inci ions are about to be ex-

during the operation, or in the future dressing of the wound.

The main consideration, however, connected with the preparation of the part, is that which regards the state of tension to be given to the structures we are about to divide. As much as possible, the surface to be divided should be rendered moderately tense by a circumferent traction, exercised equally in every direction; thus will the making of a chan cut be facilitated, and its terminations will be less likely to present the appearance to which the name "tails" has been given.

Often, however, the surgeon, with the fingers of his left hand pressing on the surface, opposes the traction exerted by the course of the knife in his right, without any lateral or cross tension being practised, which should, nevertheless, be obtained from the hands of an assistant in operations, where greater precision is required.

When dividing the integrment over the situation of important blood-vessels or nerves, or parts which we are required to hit, or cut down upon, great care must be taken in stretching the skin, or practising the tension, that the surgeon, observing accurately the relation of any part of the integument to all which lies beneath, may not be misled when this is altered by the new position which stretching gives to the more superficial parts concerned in the operation; he should watch the motion imparted to the surface by his own fingers, or those of his assistants; and should take into account both its direction and extent; and should remember, at the same time, the peculiar extensibility or elasticity of the structure he is about to divide. This caution will be found more particularly worthy of notice in operations for the ligature of arteries, as the brachial, femoral, &c., while the neglect of it sometimes leads to no small confusion in seeking with the probe or scalpel, if such phrase may be allowed, the trunks of these important blood-vessels.

In making an ordinary straight incision with a common bistoury, an inclination is given to its edge, a little nearer to the horizon than that of the pen in writing; but at the commencement and termination of the line of incision, the instrument must be entered, and withdrawn, nearly in the perpendicular direction, that the different parts of the incision may be of equal depth, and its extremities well-defined.

The degree of force or pressure employed upon the bistoury, must depend on the depth of the incision to be made, or on the density of the parts to be divided.

Incisions may be said to be simple or compound, or straight or enryed; for of the various combinations of the two latter, the others may be said to

Incisions are often made to resemble, in their general outline, different letters of the Roman alphabet, the form of the following being more especially imitated:-

1 C H L O Т

The alphabet of incisions, however, is not confined to these, for figures like the following come in their turn:-

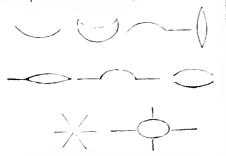


The first couple of the above forms for incisions, allow of the raising of one,-while the tour latter forms enable us in each case to raise two flaps.

The following three forms of the crucial incision, admit each of four flaps being raised :-



It is better to keep as much as possible to straight lines, for, with the aid of these, reunion is more readily and more easily effected; nevertheless the shape, situation, or condition of deformed ton ive, the surface bould be previously bayed, if or diseased parts, oblige us now and then to devithe leair upon it would be likely to be trouble some ate, not only from the straight line, but also, in some degree, from any established rule. Hence the imitation of figures such as the following, in some operations of the bistoury :-



The two latter, especially the star-shape, can seldom he wanted; Malgaigne, however, has thought it worthy of notice, in his work on Operative Surgery; and the other may be required in exposing vascular growths, so as to surround them by ligature, where it may be necessary to remove part of the integument; and still further, to denude the subjacent structure, by the turning back of the flaps. Mr. Liston gives a re-presentation of this incision in his valuable work on Practical Surgery, and speaks of having employed it in a case of subcutaneous erectile tumour on the shoulder of a child. Part of the integument was discoloured, and adherent to the subjacent mass, navus maternus; but the boundaries of the tumour extended far beyond. In order to surround the diseased parts, it was found necessary to make the incisions as represented in the ac-companying figure, and to dissect the intervening integument from the surface of the tumour, to the requisite extent.

Although the form of incisions be so much varied, the most simple are those which are most frequently employed, one straight line being required more frequently than any other kind of solution of continuity on the exterior of the body; for this varying in length, suffices in the majority of scarifications, in the opening of abscesses, in the removal of small tumours, in most of the operations for the ligature of arteries, and in some of those performed for the relief of strangulated

hernia, in the operation for stone, &c.

There is one error which young surgeons are very apt to commit in cases, where much depends upon the situation and extent of this single straight incision. In many of the cases just now alluded to, we need not say any thing respecting the importance of choosing carefully the locality of the incision, or the line of surface through which it nust pass; but let it be remembered, that in eight eases out of ten with ordinary operators, the first straight incision is made Too snort, and thus every future step of the operation is rendered comparatively awkward and difficult, its progress retarded, and the sufferings of the patient increased, until the surgeon, perhaps taking a hint from the bystanders, extends his first incision, to give that facility to the rest of the operation, which he ought to have lad from the beginning; but even this way of making the best of a bad joh, is better than the plan, sometimes adopted, of changing the figure of the incision by giving to it a side branch, for the purpose of raising a couple of unnecessary flaps-where a little lengthening of the single line would have answered the purpose, for the rennion of the parts is much more even, more readily effected, and the cicatrix less unsightly, where a single and straight line has sufficed on the exterior, than where any plan represented by this figure

is resorted to.

There are but few instances where the external incisions now alluded to, need be confined within very narrow limits; and if they should be made half-an-inch too long, never mind, this can do no idea of the aspect of the above case, before operation,

great harm,—but, if allowed to remain too short, the annoyance to the surgeon is great, and the mended to notice. injury to the patient may be equally so.

Some of the figures we have exhibited as represcuting forms of incision, suppose the removal of a portion of integument, a proceeding which should never be resorted to where we can avoid it; and, as far as tumours are concerned, this is not so often necessary as might at first be imagined,-and this fact, like many others connected with Operative Surgery, reminds us of the importance of attending to the peculiar vital and physical properties of the parts concerned in surgical operations; for the extensibility of the skin is very great, and, inasmuch as it possesses a corresponding contractile power, we shall find that after the removal of very large tumors, which have grown beneath it, the tegu-mentary membrane will gradually creep within its primitive limits: while the wrinkling in the neighbourhood of the cicatrix, which may at first look awkward, will afterwards by degrees disappear. By way of illustration, the following case may be mentioned, which occurred to me a few months

A middle-aged man had a tumour of the neck, in front of the wind-pipe, of the shape of the human kidney, but larger; it had been some years in gradually attaining the size it had, when I first saw it. It was very unsightly, forming a large projection which prevented the approximation of the cravat to the fore-part of the neck: but its disagreeable aspect was its least inconvenience, for it pressed upon the trachea and larynx, and kept up a continued irritation about the glottis, and a very troublesome cough. Refore the patient came under my care, he had rubbed mercurial ointment upon the tumour, and taken internal remedies for it at the same time, but without any good effect. On examination, I found that it did not consist in any enlargement of the thyroid body, but that it was an encysted tumour, with a tolerably strong capsule crossing the neck, the extremity of it on the right side being placed somewhat higher than that on the left. It was, in short, one of those large tumours of the neck which have been so carefully studied and well-described by a venerable and experienced surgeon, the late Sir Everard On the exterior, its general aspect was Home. rounded, the kidney shape coming more into view as the divided integument was pressed aside at the time of its removal.

A longitudinal incision was made over the forepart of the tumour, which extended also above and below it, reaching from a point not far from the back of the chin, to within a short distance of the top of the sternum, the divided integument was drawn aside, and the tumour exposed by dissection; a strong thread being passed through it was given to an assistant, who by traction exerted upon it, rendered tense the different parts of the cellular tissue as they came beneath the touch of the knife; and in this way all the connections of the tumour were divided, and its removal in the entire state effected. The larynx was exposed, and the muscles lying upon it, and the beating of the right carotid could be very distinctly seen; and the chasm made beneath the uplifted skin was large enough, when the tumour was removed, to admit a small closed fist. Yet although such was the extent of the integument left, the line of wound healed as kindly as possible, and the skin has gradually assumed its natural condition with regard to extent. The man has long been perfectly well-freed from that disturbance of the respiratory apparatus from which he previously suffered-and the integument of the neck is at present in no way peculiarly wrinkled or redundant.

Mr. Liston has valuable remarks on this subject. He says:-" In all eases where the skin is not thinned to a great degree, and altered in structure, it will be prudent to leave nature to deal with it, when laid down in position, after the removal of the offending part. In such cases, however, great care must be observed as regards the approximation and retention of the edges, and the formation of a dependent opening, so as to prevent accumulation of blood, serum, or pus, at various periods of the cure."



ON THE LAWS OF THE DEVELOPMENT OF ORGANS; OR, TRANSCENDENTAL ANATOMY APPLIED TO PHYSIOLOGY.

By L. R. A. SERRES, Member of the Institute, of the Academy of Medicine, Professor to the Museum of Natural History, Paris, &e, &e, &e, &e.

Theory of homologues-Its application to the organisms of the invertebrata-Principle of the analogy of organic tissues, by Bichat-Origin of comparative Anatomy-Principle of the correlation of forms, by Cuver-Geoffrey Saint Hilaire's theory of analogues-Comparative ovology-Theory of centripetal development-Transcendental unatumy, as compared with 200logy and comparative ana-

I EXPLAINED to you in my last lecture, how Haller adopted the theory of evolutions, to gratify his favorite idea of centrifugal development and of the creative action of the heart. The development of vegetables, as compared to that of animals, was as a consequence forcibly excluded from this theory. The separation of the two kingdoms was the necessary effect of the tardy period at which these observations were commenced. The system of Aristotle and of Aquapendente, took precedence of that of Harvey and of Malpighi. Epigenesis, on the contrary, tracing matter in its passage from the inorganic state to that of organization, following it step by step through its various transformations, forms the true continuation of the system of Malpighi. As in the theory of evolutions, all analogy was rejected between the development of animals and that of vegetables, so is the study of this analogy one of the essential bases of epigenesis; here we find a common character in the works of Malpighi, of Needham, and of Wolf. These eclebrated anatomists, however, fell each into a similar error; they did not confine themselves to direct observation." Attempting to sear still higher and endeavouring to explain the cause of the difference in development between vegetable and animal matter, their researches became imbued with a mixture of conjecture and of fact which not only impairs them, but frequently even renders them unintelligible.

From these combined efforts, however, spring the science of organic evolutions, which, regarding the organisms at their secondary period of formation is in reality but the study of the second stage of epigenesis. Setting out from this point, epigenesis and the theory of evolutions progress together, following the organic transformations up to their perfect development. We will, however, point out the differences between these two theories. That of evolutions commences only when the first formations are completed, that is to say, at the arpearance of the heart, All that precedes this

stage, is considered to pre-exist or to be pre-formed. This unknown period, on the contrary, is the constant object of the labours of epigenesis. inasmuch as the laws of formation can only be appreciated before the formation of the organisms: or rather, during the progress of their first rudinants. Hence do we find in the theory of evolutions, a total absence of laws of formation; in that of epigenesis, on the contrary, a constant necessity of the study of those laws; in the theory of evolutions, a neglect of the relations which exist between vegetables and animals; in that of epigenesis, a necessity for their consideration; in the theory of evolutions, an increase by intus-susception; in that of epigenesis, an increase by extra-susception; in evolution, a development of organs by extension and by continuity; in epigenesis, a development of organs by the successive addition of hemogeneous organic materials. While tracing the conversion of the theory of pre-existences into that of organic evolations, we may also follow the transmission of the ideas of one period to another in anatomical researches; for we must remark, that the application of the same principles in science almost always produces similar results, modified simply by the progressive murch of observation. Thus the principle of unity and of continuity of organisms had produced, as we have previously said, the theory of histologic homogeny; the same principle conducted, with the system of evolutions, to the theory of organic homology. In place of an ele-mentary tissue, this was a collection of tissues, a compound organism which was presumed to give birth by its extension and by its repetition to all similar organisms.

Andre Bonn was the first who, in tracing the organisms one from another, remarked the repetition of the parts constituting them,: the hair, the nails, the teeth, the glandular follicles, being reduced to a common type, undoubtedly constitute a fact as remarkable as the transformation of the cutaneous covering into the mucous membrane, which first fixed the attention of anatomists. That which André Bonn had done with regard to the general covering of the organisms, Vicq-d'Azzr attempted in reference to the limbs of men and annuals. The analogy between the upper and lower limbs is so evident that it has at all times struck even the common observer. But the anatomical de-monstration of this vague idea required the whole power of a genius, such as that of the French anatomist. He compared bone with bone, muscle with muscle, and vessel with vessel. The result of this comparison was to show that the same parts are repeated exactly in the composition of the upper and lower extremities. Independently of this relation, there is also in the work of Vicq-d'Azzr the germ of the principle of co-existence and of harmony of parts, the demonstration of which constitutes one of the greatest glories of Cuvier.

Hitherto homology was merely, so to speak, of individual application. By comparing two organic elements, different in appearance, some analogy was shown in their composition; but no general element was possessed which served as a type, and from which all parts of the same organic system could be deduced. The trunk appeared eventually to furnish this element. Every one knows that the spinal column in man is formed by a succession of vertebric placed one upon another. The spine is then in reality but a repetition of the vertebra. Now, the spine is surmounted by the cranium, and rests on the pelvis. What then are these latter parts? What are their relations with the chain of vertebra which unites them together? The most original idea was, doubtless, that proposed towards the conclusion of the last century, and which regarded the cranium as a pure assemblage of vertebray. Goethe appears to have been its author. But M. Duméril in France, and Oken in England, are the first who demonstrated this relation. The cranium is then a repetition of the vertebral cohunn; and in the same manner, the sacrum is but its continuation. Thus limited, the doctrine of homologues does not appear liable to the objections which have been raised against it. But can the same be said of those propositions of MM. Oken and Spix, in which they attempt to trace in the different parts of the head the repetition of the

—the pelvis in the os hyoides—and the whole bony system of the limbs in the maxillæ and the teeth? or can we with M. Meckel consider the glans penis or the cliteris, as a repetition of the tongue, the vagina of the masal fosse, or the small bulb which terminates the spinal marrow as a repetition of the brain? Would not these forced analogies bring the organization of the vertebrata down to the level of that of the invertebrata? In the latter class of animals, the simplicity of the organisms justifies this repetition; it has moreover been placed beyond doubt by the researches of M. Savigny upon insects and the crustacea, and by those of MM. Dumal, Meckel, Andonin, and Duges, upon polypi and the annelida.

By the side of this unitarian anatomy appeared the general anatomy of Bichat. In opposition to histologic homogeny, this system might be denominated differential histology. Created under the influence of the theory of pre-existences and of evolutions, it took from physiology its principal direction, and with a view of infolding the preperties of organisms, it applied itself in an especial manner to the consideration of their structure.

This study necessarily brought back that of the tissues. The school of Haller had not neglected this subject: the osseons and muscular systems had been the object of the labours of Albinus, of Winslow, of Sabatier, &c.; the vascular system had especially occupied Ludwig; the lymphatic vessels, Cruikshank and Mascagni; the nervous system, Haller and Prochaska. Important discoveries had marked the course of these anatomists; but scattered and unconnected they remained unknown the one to the other. This defect, so sensibly felt, Bichat removed by his magnificent work on general anatomy.

Sufficient attention has not been paid to the means by which this grand work was created. It was not merely by the most able dissection, nor by the chemical re-agents to which the various tissues were subjected, nor even by the analysis which he made of their properties, that Bichat attained his end. These material processes were in reality but as the scaffolding to the building. A constantly prevailing idea governs over the rest; namely, the principle of the analogy of organic tissues. The anatomical characters of a tissue once laid down. Bichat traced this tissue through all its modifications and transformations, and did not abandon it until obliged to renounce his rigorous modes of investigation, which are the touchstone of the principle of analogies This it was that constituted his system of anatomy. Analogy of structure, analogy of properties, consequently analogy of functions; this is the characteristic distinction of the immortal work of Biehat and the source of his useful researches. While tracing the transition of tissues, with a view of studying their normal transformations. Bichat perceived that these transformations also take place in an abnormal manner. Now, this abnormal evolution of tissues by modifying them, in like manner modifies their properties, and by modifying their properties, inevitably induces a change in their functions; thus constituting disease. Hence, then, we trace disease to the transformations undergone by the organisms. Now, these transformations, called accidental, when considered in themselves and in their relations with functional modifications, give birth to a new science, pathological anatomy. It is this science, originated by Bonnet and by Morgagni, which was raised so high by the researches of Laennee, of Payle, of Corvisart, Dupuviren, Meckel, Andral, Louis, Breschet, and others. It is to the study of diseases what normal anatomy is to physiology. Thus do all the medical sciences form in the aggregate a chain linked together by the principle of analogies.

But M. Duma'ril in France, and Oken in England, are the first who demonstrated this relation. The granium is then a repetition of the vertebral co-hum; and in the same manner, the sacrum is but its continuation. Thus Finited, the doctrine of hosmologues does not appear liable to the objections which have been raised against it. But can the same be said of those propositions of MM. Oken and Spix, in which they attempt to trace in the different parts of the head the repetition of the same of the first who demonstrated this relation, and the course of the first who demonstrated this relation. Thus finited, the doctrine of hosmologues does not appear liable to the objections which have been raised against it. But can the same be said of those propositions of MM. Oken and Spix, in which they attempt to trace in the different parts of the head the repetition of the principle of one of the first time by Geoffroy St. Illiaire. The basis of this new theory was the principle of different parts of the bedy—the thorax in the nose on the advance of general anatomy; and general

anatomy itself is lastly but a fruitful application of the principle of analogies. It is thus that comparative anatomy was originated. Daubenton was the first to comprehend the general principle, the common bond of all the separate facts which serve as its basis. He took man as the term of relation, and animals as means of comparison. He, for the first time, gave to this study a fixed direction, a course in which Vicq-d'Azyr afterwards laboured with such great success. But neither Vieqd'Azyr nor Daubenton succeeded in giving it a truly scientific character; this glory was reserved for the illustrious Cuvier. It was not, however, by constant dissection, nor even by the most careful comparisons alone that this study became erected into a distinct science. This was accomplished under the influence of a principle, that of the correlation of forms. The organic forms in man and animals are made subordinate one to another to produce a fixed action; a given form necessitates a second, the second a third, the third a fourth, thus gradually connecting together the whole series of organisms from whence animality results. Considered in this way, comparative anatomy made rapid strides towards two grand results; on the one hand, it connected with the forms in man the variations of form in animals; and, on the other hand, it rendered subordinate one to another the forms of animals by establishing their reciprocal relations. From the first result sprung differential comparative anatomy; from the second arose zoology, the fundamental principle of which, deduced from the correlation of forms, was the subordination of characters.

We now come to the subject of animal fossils, These remains were known before the time of Cuvier; they were carefully treasured up in libraries, and written on in most of the academical memoirs; but not a single general idea had been emitted upon their minute descriptions. Cuvier appeared and applied to them the principle of the correlation of parts, already proved by comparative anatomy, and quickly these bones, leaping as it were, from the depth of their sepulture, rallied at the voice of this principle their scattered fragments, and arranged themselves in skeletons as complete as those prepared in the laboratories. This unexpected resurrection was not confined to the skeleton; lost animals reappeared before us, with the entire characters of their order and family-presenting a kind of image of the creation, -an example of the power of an idea, or of a general principle, even in the sciences depending on ob-

Here ended the reign of organic pre-existences; its last hour was naturally brought about by the decline of the grand discoveries, which the anatomy of organisms gave rise to in their perfect development. The principle of the correlation of forms and of the harmony of parts had been its grandest and most fertile result. This principle, being founded on the idea that the organs of an animal form an entire whole, of which all the parts hold together, acting and re-acting one upon another, it resulted that no modification could take place in any of these organs without producing corresponding and analogous results in all the others. harmony could only be conceived by means of this mutual and general agreement. The consequence of this principle, in organogeny, was not only to render prevalent the idea that the young embryos are the miniature of the perfect animal, but even to check in its development the theory of evolutions, according to which slight transformations are allowed to take place in the organisms. New principles then became requisite, to give to organogeny a fresh impulse and bring it back into a direction which it had abundoned; it was, moreover necessary that these principles should direct attention upon the order of facts transitorily presented by the organisms in the course of their development. These requisite principles were not long in appearing. By the side of the differential theory of organisms, arising from the principle of the harmony of parts, was erected the theory of analogues, springing, on its side, from the princi-ple of organic analogies, so clearly arranged for the first time by Geoffroy St. Hilaire. The basis of this new theory was the principle of analogies,

ferences: its object was to establish the analogy of composition in organs and in animals, in opposition to the differential theory which pre-supposed them essentially different. Now, for the purpose of establishing this difference, authors had merely pointed attention to the state of organs and of beings in the last term of their development. Geoffroy St. Hilaire, on the contrary, wishing to show their analogies, directed his study over the different periods of development in organs and in It was thus that he most clearly demonstrated that before differing, animals and organs are originally analogous. For the fixity of organic forms and the invariable character of zoological species, consequences derived from the differential theory of organisms, he substituted their variableness, an equally logical deduction of the theory of analogues. Against the reasonings of the differential theory, he opposed powerful organogenic facts. Under the influence of the differential theory, comparative anatomy and zoology remained purely descriptive sciences, similar to that which in man is named descriptive anatomy; but guided by the theory of analogues, these sciences became as general as human anatomy under Bichat. Thus what Biehat had done for organic tissues, Geoffroy St. Hilaire performed for the organisms and development of organs. He sought in the embryogenic state of animals, analogies which afterwards become effaced by the series of developments; and thus opened to science a new path abounding in fertile results.

Whilst Geoffroy St. Hilaire was giving this new impulse to the study of organogeny, demonstrating by experiment that the organisms of the lower vertebrata are represented in a transient state by the organisms of the embryos of the superior vertebrata, M. Meckel, in Germany, was following up the theory of organic evolutions as promulgated by Haller; MM. Spix, Oken, Müller, de Blainville, &c., were generalizing the homologic views of Bonn and of Vicq d'Azyr, by calling to their aid the data furnished by the differential theory, as well as those resulting from the theory of organic analogies. Lastly, comparative ovology, almost abandoned since the time of Hunter, received from the labours of M. Dutrochet that active impulse which MM. Cuvier, Oken, and Carus, have so ably followed up.

Still, in the theory of analogues, as well as in that of evolutions, or in that of homologues, organogeny constituted but an accessory part; it was not considered as a distinct science. And this, notwithstanding the facts collected by Aristotle, Aquapendente, Harvey, Malpighi, Maitre-Jean, Haller, Needham, and Wolf. But the misfortune was, that these facts being used in their turn either to sustain or to combat those general ideas, of which we have been giving a sketch, being often interpreted in a sense inverse to their true manifestation, formed in their assemblage an inextricable chaos, in which the mind in vain sought for a rallying point. This rallying point, however, does exist in nature; for, on the one hand, embryogeny presents to us the organisms, in their primitive state, separated and disjointed; and on the other hand, in their complete development, the anatomist observes these same elements united whole. How, then, does this metamorphosis take place? Is it change which Is it chance which presides over an order of development, so constant, so regular—an order which is even maintained in apparently irregular formations? How can such perfect order exist. unless these developments be subject to fixed and general rules? The existence of such rules had been at all times felt, although nothing precise had been arrived at on the subject. How, then, attain this so desired end, the constant object of the efforts of so many anatomists, except by the one sure road—that of observation? It is this method-the only safe one in the natural sciences. which has shown to us the primitive division of organisms, as well as the rules which they follow in their progress towards union. It is by observation alone that we have seen them sometimes running regularly through all the periods of formation assigned to them, at other times arrested

common basis, and formed of analogous materials. It is observation, aided by comparison, which has discovered to us that the organisms of the inferior animals are arrested in their developments at one or other of the embryonic phases of the superior animals; and that the various periods of arrest undergone by the organisms of the superior embryos, produce those numerous and varied organic mulformations which constitute, in a great part, the domain of pathological anatomy. It is, lastly, by observation, comparison, and reasoning, that, descending or ascending the chain of the animal kingdom and of its embryonic productions, we have been enabled to rally that multitude of facts under one general and common law-the centrinetal law of development which governs them all, Thus is the theory of centripetal development but the realization of the epigenic formation of man and of animals, as imperfectly glanced at by Harvey, Needham, Wolf, and Haller himself, before he abandoned the now invincible cause of epigenesis.

Transcendental anatomy thus embraces within its scope the immense field of animal organization in a perfect state, and that still more extended one of organisms in the course of development, whether considered during the embryogenic state of the superior animals, or during the whole period of development of the lower orders of animals. The conditions which it includes are, thus, of two orders: in the one division, we have the transitory forms presented by the organisms in the course of their developments; and, in the other, the permanent forms or states at which the organisms are arrested in the lower animals. We thus arrive at the explanation of the perfect organisms by following the transformations which they undergo, at the same time taking into account their stages of arrest, whether normally in the inferior animals, or abnormally during the course of embryogeny in the superior animals. From the consideration of these individual facts, and from their comparison one with another, arise views and relations different from those presented by comparative anatomy and zoology, which are limited to the consideration of the organisms and of animals in a perfect state. As, in the natural sciences, distinctions are merely based on differences, so differential zoology and comparative anatomy, regarding essentially the distinction of animals and of their organisms, have necessarily made the study of differences the principal rule of their researches. The principle of the correlation of forms, and that of the subordination of characters, perfectly resumed the natural method of investigation and classification, which alone could conduct these sciences to their present improved condition. On the other hand, as in the natural sciences, we can only determine by analogies, so, analogy of function, that of form and of situation, that of relation and of connexion of the organisms, that of their formation and development, and that of the rules which preside over their association and harmonization, are the principal bases of the researches of transcendental anatomy. Their end is combination, as that of differential zoology and comparative anatomy is division.

But the differences and analogies of organisms do not exist simultaneously in animals. one period for analogies, and another for differences; the more that the former are effaced, so do the latter become more prominent. Now, the differences being well characterized only in perfect animals, or at the period when all the evolutions of their organisms are completed, it was especially and almost exclusively, to this period that zoology and comparative anatomy applied. Imperfect or ganisms were considered but digressions. Hence, these sciences experienced no check from the theory of pre-existence and pre-formation of organisms. Directed incessantly upon fixed and permanent forms, the variations which these forms had undergone in the course of their developments imported nothing. Epigenesis was totally neglected.

tion alone that we have seen them sometimes running regularly through all the periods of formation assigned to them, at other times arrested in their progress, and thus producing infinite varieties of form, but always designed upon one

anatomy is especially directed. Regarding incessantly imperfect organisms, or those during the course of development, it naturally conducted to the consideration of similar organisms in the inferior animals; and meeting in them fixed forms, which become reproduced as transitory forms in the superior animals, it deduced from their comparison new laws and relations which bind them one to another. Thus did the chimera of preformations become replaced by the theory of epigenesis, as more conformable to organogeny and the successiveness of organs. We now see how transcendental anatomy became based upon general embrogeny, from the study of organisms in the progress of development; whilst zoology, and the comparative anatomy of animals, were founded upon the perfect organisms. This difference in origin was necessitated by the difference of results which these sciences propose to attain. The object of the one is the distinction of animals, while the other attempts their explanation. Transcendental anatomy ends where zoology and comparative anatomy begin.

But in placing organic metamorphoses upon this delicate foundation, we must avoid falling into error, by constantly adopting the most rigorous mode of investigation, and by proceeding from special to general facts. In the sciences of ob-servation and experiment, a theory should be but the free expression of facts; it ought to form in its ensemble, a perfect syllogism, of which the facts constitute the premises, and the mutual relations of the facts, the consequences. But, while adopting this principle, we should not, as is too much the custom of the present age, fall into the opposite extreme. We should not, by confining ourselves to the simple inspection of phenomena, or the mere instinct of observation, reject, as suspicious, every general truth, and regard every abstract proposition as an error. It is not so much these abstract theories, as their abuses, which have retarded the progress of comparative organogeny; and this has arisen, on the one hand, from an ignorance of the various states traversed by the organisms in the course of their development; and, on the other, from an incorrect appreciation of the relations of these organisms throughout the animal scale. We must, then, to avoid error, study the different organs in their primitive state, that we may the more surely be enabled to determine the various conditions which they assume in their subsequent states.

PERISCOPE OF THE WEEK.

THE EXCITO-MOTORY SYSTEM. - Dr. Marshall Hall does not concur in the opinion that the grey matter is, in every instance, the source of power in the nervous system, whilst the white or fibrous performs the office of a conductor merely. There is one fact which refutes it entirely. If we sever a muscular nerve from its connection with the nervous centres, and irritate it by a needle or the forceps, the muscle or muscles to which it is distributed are excited into contraction. Now here is power, the excitor power. To say that the impression is conveyed along the nerve is to assert a fallacy; for the puncture, the pinch, is that impression, and this is not conveyed along the nerve. On the contrary, some power,—some vis nervosa, -is called into action, and this power does extend along the nerve to the muscle. Yet the nerve contains grey matter. In short, power is present, no grey matter is absent. This, therefore, appears to be an experimentum crucis. He adverts to another point, that of the part acted in walking by the excito-motory property and function. much had been attributed to the agency of this property in this case. The mind, it is true, might be fully engaged in other thoughts, or trains of thought during walking. But so it might during the performance of a piece of celebrated case of the ostrich, the head of which was struck off by a crescentiform arrow by the Roman emperor, the contact of the sole of the foot with the ground, no doubt, did prove an excitant, and had its share in inducing the successive acts of the limbs in progression. was essential, however, to the safety of the doctrine to restrain its application within just The excito-motory doctrine by no means depended on anatomy. Physiology has its own facts, its own evidence, irrespective of those afforded by structure, which might, or might not, for the present, afford its corroboration of the doctrine founded on those facts. If we remove the head of a frog, for instance, and irritate a limb, movements are immediately induced. If we now remove the spinal marrow, these phenomena cease. Now these facts are solid, as if the terms grey and white matter had never been uttered by the human voice. On such facts the excito-motory doctrine is based. The doctrine has proved as stable as the stable basis on which it is founded. It is only necessary to restrain it within its own province. That province is extensive enough, both in relation to physiology and pathology; it embraces all the acts of ingestion and of egestion in the animal economy, acts never explained before, and the class of spasmodic diseases. - Dr. Hall thinks it particularly desirable that the term excito-motory system should be limited within the bounds which he himself has assigned to it, for otherwise objections might be raised which did not apply to his use of the term, but to the more and more extended use of that term by others. He had always limited the designations of "the excito-motory system," "the reflex action," &c., to the true spinal system, the system of the acts of ingestion and egestion, inclusively of the cerebral on the one hand, and the ganglionic on the other, and he would say that the members of the society should, for the sake of truth and accuracy, do the same. Besides, nothing can be more natural in itself, as well as e sential to just views of the subject, than the divisions which he proposes. We may witness the phenomena of a perfect infant; the cerebral, the true spinal, the ganglionic functions, are all perfect. We may watch the phenomena of an encephalous fectus; in this case the cerebral functions are entirely absent; there was no sensation, no voluntary motion; the true spinal and the ganglionie exist together, but alone; respira-tion is continued, but it wants the equability which is conferred by the cerebral influence; all the acts of ingestion and of egestion were performed well enough. Lastly, we may examine an amyelencephalous foctus, that is, one without cerebrum, or the true spinal mar- an affair of partizanship. As importantly connected, row; it is meapable of an extra-nterine life; either by pretension or fact, with medical science, it not an act of ingestion or of egestion is accom-Hished; all is interior and garglionic. If there is no other evidence of the distinctness of the three divisions of the nervous system. these facts, though but as it were Irsus natura, would be sufficient. Let us not proceed to confound them again, either by including in the excito-motory system phenomena which in reality belong to the cerebral on the one hand, or to the ganglionic on the other. It will be easy to devise other terms if we wish to speak of cither of these. In the same manner he observes, that the question of the respective offices of the grey and white matters of the nervous system have nothing to do with the doctrine of the excito-motory system, which was established on its own basis, that of experiment and physiology. Dr. Hall thinks these respective functions not yet made out. They exist undoubtedly, but they have not been shown to be the seat and the conductor of power respectively. The experiment of irritation of a mus- sepulture is one of enormous magnitude, owner's consent; he proposes, on another,

spinal marrow, but in connection with its muscles, he has already adduced as the experimentum crucis; there was power but no grey matter. For to say that the nerve conducts the impression is illogical and untrue; the impression is a puncture, or a pinch, according as a needle or the forceps may be used. Is this conveyed? Is the puncture, is the pinch, conveved? To give either another name, that of the impression, for example, and to say that this is conveyed by the nerve, is a piece of selfdeception, illogical, and untine. No. Nothing is "conveyed." But the power, the vis nervosa. the inscrutable nervous power, unknown, except in its effects, is excited; and this excitement is extended, like the power of an electric conductor, or of a galvanic wire, to use a vague analogy, to the muscle or muscles, which it excites into contraction. In fine, thus we have nervous power without grey matter. merit, continues Dr. II., which I would claim especially for the true spinal system (so I prefer to term and consider it) is its practicability. It has been justly asserted by Dr. Sharpey that we cannot now pass along the wards of an hospital without being continually called upon to apply our knowledge of this system to the cases before us. Do we witness a case of apoplexy, or of injury of the brain, or of hydrocephalus? Do we witness the sinking of the vital powerin typhoid fever, or exhaustion? Do we require a diagnosis between cerebral and spinal disease? A knowledge of this system has become as it were our stethoscope, and it is by its means alone that we can proceed in our clinical inquiries. But this day I have witnessed a case of epilepsy, succeeding to hemiplegic symptoms. The disease is no longer confined to the brain; its influence is extended to the spinal system. How could we trace the course of this terrific malady without a linewledge of the latter system? Every day the question comes before one, Is the case cerebral or spinal? Is it one of the nervous centre, or is it one of incident nerves? &c. &c.

TO CORRESPONDENTS.

N.—We pray to be excused.

W. T. M. -Our Correspondent, whose initials ur give, and whose respectable name we have, asks if he take the treable to commine tato Mesmerism, and "shear up its fabrications," whether we will allow him space "The Medical Times," for the perpase of pub li hing has Evidence .- Inswer. Chevifully. published in a number of vol. 5, a French Physician's statement on Calaste's claim oyance, which he attrihated, after much commutain, he said, to trickery, Mesnerism, whatever it is, certainly ought not to be call, for enquiry, and has a title to fair play. We should be very sorry to see it get more. We would not be accessories to its getting less. We ask especially for inquiry, believing that as public journalists, it is our duty to farour the most scarching incestiga-

Proba's Pencillings of Dr. Roc (concluded) Dr. Berna, Mr. Lyav, and Mr. Hale Thompson, we can need. A number of letters have been received.

We must postpone notice of a further mass of conwhicatrons till our next maister.

MEDICAL TIMES. THE

SATURDAY, NOVEMBER 5, 1842.

Non tua te moveaest, sed publica vota.

Mr. Mackingon's Bill - an abstract of which we gave a short time since—is good or bad, as we look at it in its destructive or reparative aspects. The evil of intramural

cular nerve, isolated from the cerebram and No powers of invention can exaggerate, as no powers of sophistry or impudence can extenuate it. Mr. Mackinnon has evidently reached this salutary conviction, and we must congratulate him that, relying on the good sense of the English people, he has dealt with the evil in a spirit of boldness, which, in these days of legislatorial timidity, argues well at once for the honesty of the promoter, and the eventual success of the measure.

> The first clause of his bill, giving a home blow at the worst part of the system, annihilates all interments in churches, chapels, and private houses. A host of human carrion-mongers will, of course, rise in arm : against an enactment of such inestimable value to the living. We shall, of course, be told of air-tight coffins, spacious catacombs, expensively-built vaults, newlyimagined and newly-erected crypts. Our answer is short. It is an abomination to have the dead mingling with the living. The human imagination, the moral senseacting the forewarner against the physical evil-instinctively revolts against association with the decomposed and affrighting remains of what were once like ourselves. There is something horrible, something debasing, something rulgarizing, something demoralizing in the contact—the prospect -nay, the idea. With this-the positive corruption taints the air we breathe-makes rank the earth we stand on-incorporates its uncleanness in the waters we drink --- it breeds disgust-it excites fear-it impairs, destroys, health-it poisons, tortures, kills! To change this may be ill to you-it is good for society. We cannot for ever shock deeency, offend taste, destroy health, lower the tone of public delicaev and morals, to secure you a profitable traffic in human flesh-in plague-breeding corruption! The name of religion is defiled, not served, by connection with you; and this clause, carried, will do her more service than thousands received in burial-fees. It will allow churches and chapels to be attended with safety. At present, the wages, not of sin, but of picty, is death!

The next clause, enacting that there shall be no interments within a certain distance of cities, towns, and boroughs, forms with this, the destructive part of the bill, what (in some ignorance of the meaning of words in a parliamentary sense) we would call the principle of the bill. So far, Mr. Mackingon has our enthusiastic support. He has shaped into enactments, improvements that the country is yearning afterimprovements which advancing civilization has been demanding for years, with a constantly increasing importunity and

Let us now look at the honourable member as a legislative architect, in which character—it strikes us—another Mackinnon may follow him with advantage, and find alas! plenty to repair. He proposes, for example, on one side, that no cometery shall be built within the fifth of a mile of a gentleman's house or grounds, without the that a certain portion of the grave-soil shall be partitioned off exclusively for the poor, that no chance acquaintanceship may arise between pauper and genteel dust. We will not stop to enquire if these things were of indispensible enactment in his legislative bill-or of equal-handed justice in his legislative imagination,—but shall pass directly to consider the constitution of his Boards of Health. These he proposes to form in every parish and to compose them of three persons, the parson and the churchwardens! A committee of health without a medical man on it, Mr. Mackinnon! Are you serious ?-for, if so, the manager who acted Shakespeare's Prince of Denmark without Hamlet, was a joke to you. Truly, if one were to form one's notion of medical men from their treatment by the House of Commons, we should really conclude that the only use recognized for them by the assembled wisdom of the nation, was, to be insulted ad libitum. What, surely are we good for, if not to be consulted on matters that concern health? If we are not at least as well qualified for the duty as the respectable parson, or the honest churchwarden, the sooner the State indemnifies us for the expences of our education, and prohibits the ceremony of our practice, the better. But so it is,—if ever there be a bit of patronage on the wing through the House, it may come ticketed with compliments to the clerical gentlemen, the bar gentlemen, the army gentlemen, the gentlemen about town-but never, by any chance, can it come to the unfortunate medical gentlemen. The nomination of tions!

General Boards of Health, why should Mr. M. neglect the machinery offered by the existing Boards of Guardians? If, for all matters concerning public health, the medical officers of the Unions, with the two oldest practitioners in the districts, were added as ex-officio members to the Boards, we should have bodies for the administration of the new Act which, if not the best, perhaps, that can be imagined, would be, at all events, far preferable to such petty nuclei of suspicion-of narrowmindedness-of whimsicality-of interestedness, as are contemplated in the hon. member's scheme before us.

Mr. Mackinnon proposes, after five years, to give vestries full power to dispose of all grave-yards, private or public, in any way they may think fit. Is this just to the owners, or to the public? Is it shewing a legislative care of the general health, to place these open spots in the centre of large towns and cities, which, in a few years, might be made to atone for their past miscliefs to the public, by being made oases in the city desert-ornamental promenades—places of exercise for the young place these at the mercy of the parochial tection.

from their habits, may often not be the most competent to judge, and, by their personal positions, often not the most disinterested in deciding, what may be the best attraction of such valuable sites.

The clause for securing early interment of the dead, though somewhat intermeddling, we look on with a favourable, though, in its present form, not with a satisfied eye. There can be little doubt that disease is much matured and spread by the too-common custom of keeping corpses in houses in a state of decomposition. An error on the other side is, the facility of premature interments - and we own that the possibility of so horrible a calamity operates upon us sufficiently strongly to make our support of the clause, useful as it is, contingent on the co-enactment of a body of medical police, who may watch over its administration.

Our praise, then, of Mr. Mackinnon's bill, can only be modified. It is too much for a prudent law-it is too little for a grand law. We question if his best policy would not have been, to have contented himself with removing the nuisance. In a healthy state of society, the removal of a peecant mass is the signal for the uprise of the more perfect substitute. A civilized country in anarchy to-day, will, by native force, find itself in order to-morrow: and if Mr. Mackinnon had closed burial-places in the town, he would not have wanted plenty of speculators to supply them for him in the country. Mr. Mackinnon, for a comparatively weak man, is a bold one: he barristers to overlook Lunacy Hospitals, has not only dared the enemies his bill reand our omission here by Mr. Mackinnon, quired him to date, but has thrown down on Boards of Health, are happy illustra- the gauntlet to hosts of men who are far from being naturally opposed to him. We If so good a thing is to be formed as trust that the success of his battle with the worse opponents, will not be compromised by this superfluous extension of his hostilities. To prevent so lamentable a result, we suggest-and his friends will join in suggesting with us-that the bill of last year, may not be the bill of next.

He that chasteneth one, amendeth many.

English Proverb.

ECCE ITLRUM CRISTINUS! Dr. Robert Hull is again at large! At the very moment we were congratulating our modern Quixote on a lucid interval, he was on the point of stalking abroad—the moon was at its full-to renew his fearful combat with the Windmill-Reform, and repeat his desperate onslaught on Common Sense and English Grammar. As, fortunately, he is Panza the Gazette's editor, we are favoured with a full record, in print, of all his sayings and doings in this (if he have friends) last adventure of his.

The chief feats of the present enterprize are in connection with the hospital physician, whom-like his rueful counterpart, shielding the boy from his savage master----media of ventilation to all;—is it wise to he half-murders by the calamity of his pro-

parson, and two churchwardens? men who, tiveness of defining the character of the hospital physician. We pray he may be heard :-

> The licentiousness of reform, which has distressed, nearly subcerted, the empire, has ramified into our once concordant art; and unless the eyes of its professors are opened, will vitally damage its benefits. I say benefits, for, after all, the public are chiefly to be respected, when we discuss the novel amalgamation of departments; and I declare, with a venerated physician of the west, 'to me, personally, this will be of no consequence.'

Perhaps our readers will think this a rather novel amalgamation of words. Certainly, there needs more intelligence than we can muster to grasp their meaning. They are psychological phenomena which, mystic as the mutterings of inspiration or idiocy, offer no chance of explication if he that spoke them, speak not again. Aristotle tells us---we should quote him in Greek if our readers were all as Hellenic as Hull-nullum magnum ingenium sine dementiæ mixturà. – If the latter admixture holds any fixed proportion to the former, the genius of Dr. Hull must be marvellously great. Something akin is obviously required to comprehend him. Warmed with admiration, let us pass from our own reflections, again to hear his :-

The division of labour is too sparing, not too multiplicious. This is shown in the metropolis, where full and successful play is given to the divisional arrangements. See the varieties of excellence in the same body of physicians: one intelligent of cerebral disorders; another heartily devoted to cardiac; a third inspired with pulmonic pursuits; a fourth near dying from investigations of the liver: all, authorities in their peculiar departments! So in the surgic arena: the herniotomist-the lithotomi-t-the amputator-the pathologist-good for joint-evil! Promiscuous labour cannot, logically nor consistently, step within the boundaries of a particular craft nor profession. If a man deserve those success which have been expressed towards him from a London chair, because he does not impudently pretend to universality in medicine, he is likewise contemptible because he does not expatiate, geniuslike, beyond it Crichtonian perfection implies a circle of sciences. The Duke should unite, in his own person, the delivery of the nation and that of the Queen! and Dr. Locock is no philosopher, unless he can extricate an army from peril as well as a royal infant from struits! -Or a Dr. Hull from a straight jacket, we had almost said, in our fears, that such merit as the writer's was beyond mortal appreciation.

Dr. Hull is fond of negatives: he uses them on the same principle, we suppose, on which he apparently uses his arguments -to destroy one another. What a pity we have not another Dr. Hull! The two his own Cervantes, and has for his Sancho negatives-positive negatives, by the way -would be invaluable to each other.

The doctor, after taking much trouble to establish the imperiousness of defining the character of the hospital physician, singularly omits to give us the necessitated definition. Will he allow us briefly to repair his oversight?

The hospital physician is frequentlywe cannot, fortunately, say always, though, Dr. Hull proves the impera- under the present system, he might always he-a gentleman who had not, has not, never will have, one qualification for his 10st. Medical education and honesty, the ty emain attributes of every good physician, may have had nothing to do with his appointment to his office, and frequently have nothing to do with the discharge of his office duties. His position proves him to he a man of some wealth, or some interest -whether the first was acquired with honesty, or the second supported without servility, are things by no means matters of obvious, or even probable, deduction. Sometimes it may happen that he is a mere muddy-brained, grandiloquent pedant, who thinks himself profound when involved in a perplexity-witty, when laughed at, or a little extra-foolish---clever, when an object of wonder-as loved, because an object of solicitude; whose arrogance is equalled by his inanity---whose pedantry is surpassed by his ignorance---who explains the inexplicable by words that nobody before heard of, and elaborates illimitable nonsense into epistles of interminable length, which have no claim on human charity or endurance, save on the probable supposition that they are the eyesta of a brain in a state of overcharged insanity!

All men, we are told, are fools or physicians at forty-never, surely, did man take so much trouble to prove that some may be both at fifty!

GORE'S AMMONIACAL SOLUTION OF ERGOT OF RYE.

(To the Lebter of the Medical lime ")

DEAR SIR,-Having read in your valuable journal, some observations from Dr. Ridout upon the inconvenience as to time, of the decoction of ergot of tye. I beg to make the following remarks njon a form of that remedy which I have been using for several years, and upon the cases where its use is called for.

The "secale cornutum," is of such vast importance in the hands of the judicious acconchenr that any mode of preserving its qualities or of increasing

The tendency of the type itself to deteriorate or get totally useless, it exposed to damp, and the frequent failures which appear to have resulted from the use of this remedy either in powder or the common flucture, long since induced me to devise a means of alleviating these evils. The preparation to which I refer, has, as far as my experience goes, during the past ten years accomplished every desirable end. I have had, during that period, the sole management of an "Institution for attending poor Lying-in Nomen at their own homes in cases of difficulty, upon the plan of the " Dublin Wellesley Female Institution, formerly conducted by Dr. Cusack, which has afforded me very many opportunities of observing the effects of the remedy; and 1 have heretofore declined publishing either the nature of the preparation, or the advantages attachable to it, until I felt quite convinced that both were worthy of consideration; and the form of remedy sintable for general adoption.

MODIL OF PREPARATION.

Into half-a-pant of aromatic spirits of ammonia, I put four ounces of fresh ergot of rye, bruised coarsely. I allow this to stand for a month, frequently stirring the ingredient with a glass rod in the fluid; after which I squeeze every drop of the spirit out of the rye. The "ammoniacul solution," thus made, has a fine dark colour, and looks in-In a glass stoppered bottle it may be spissated. preserved for any length of time without deterioration of power. This solution contains all the active principles of the rye in a convenient form, ton, are among the candidates.

and increased efficacy, the ammonia causing the ergot to act more rapidly, and with greater cer-

I administer 30 dreps of it in a wine-glass of cold water, every ten minutes until the action required is sufficiently developed, applying gentle pressure with the flat of the hand, to the abdomen when the pains are present. Three such doses have, in the majority of cases which came under my observation, proved sufficient; but circumstances will now and then alter the requirements, as in other branches of medical practice in respect to various remedies.

It requires some consideration to determine the form of cases in which ergot of rye or any preparation of it may be used with safety and advantage; otherwise, the good expected, may be su-

perseded by injurious results.

It is admitted by all who have had sufficient opportunities of using the rye in its proper place, that it is an invaluable addition to medical aid in such forms of difficult parturition; and that when it does act, varied degrees of contraction of the uterine fibre is the specific result of its administration, in cases varying in their circumstances

Its use is therefore indicated in cases where inactivity or relaxation of the uterus is the enly cause of delay; and where the uterine fibre has been stretched beyond the point necessary for its assumption of contractility. The full period of gestation having arrived, and the pains indicating the object which nature, apparently in vain, seeks to accomplish. It is necessary however, that other conditions co-exist before the remedy be employed; namely a relaxed state of the os uteri, and of the other parts through which the factus has to pass. In such cases as these if labour be protracted so as to cause anxiety, or justify interference, the ammoniacal solution of the ergot of rye will accomplish what is sought after without other aid than that required in ordinary cases of natural labour.

The indications for its use then are present when the propelling power is defective, or of itself insufficient; resistance to the fictus from rigidity of the as uteri being no cause of delay, or only such as the ladneed uteriae action is capable of overcoming.

In many cases, however, the head may be brought safely into the pelvis within convenient reach of the short forceps by this remedy, which advance alone is of very considerable importance; and in cases where the uterus does not contract with sufficient rapidity or to the necessary extent after delivery to prevent hemorrhage, it proves of invaluable advantage: in such eases, however, circumstances demand more immediate collateral aid.

The conditions I have above detailed, will lead the practical observer to perceive, that in cases where the ergot of rye is indicated, the existing relaxation is that which frequently causes subsequent flooding, to supersede which, any means must be correspondingly natural. It becomes, therefore, apparent that the remote effects are as valuable where flooding would otherwise occur, as its immediate operation.

The state of relaxation where ergot of two can be used with prudence, is almost always as general, as it is local; and in such conditions, the "aromatic spirit of ammonia," is not only admissible, but useful, so that the combination is unobjectionable as far as the latter vehicle is concerned.

Lastly, I have to observe that the cases in which we are called to administer ergot of rye, are the rery reverse of these in which belladonia, tartrate of antimony, bleeding, and warm applications should be resorted to .- I am, sir, with many obligations for your kind insertion of this communication, yours very truly

W. R. Gore, M.R.C.S.

treet, Limero k. Trebn Medical attendant to the "Limerick Institution for attending poor Lying-in Women, at their own homes in cases of difficulty," and to that " for the investigation and treatment of Diseases of the Chest."

CORONERSHIP.—The death of Mr. Smith, an attorney, leaves a vacancy in the coroner-hip of the Southern Division of Staffordshire. Dr. 1. Turnbull, Dr. Dehane, of Welverhamp-

HYDROCELE COMPLICATED WITH HER-NIA-HUMORALIS, CURED, WITHOUT IN-CISION OF THE SCROTUM.

167. Bishopsgate Without, 1st November, 1542. (To the Leiter of the 'Medical Times.')

Sta, - The following case which occurred to me at Ria de Janeiro, in the beginning of 1840, during my residence there, I beg to transmit to you, and hope, that if you think there is anything new or interesting in the treatment thereof, it may receive a place in your valuable and widely circulated I am, Sir, your humble, periodical.

and Obedient Servant, WILLIAM SMITH. Surgeon.

Mr. F. W. a native of Great Britain, an apothecary, at Rio de Janeiro, presented Limself to me in that city, in January, 1840. He was about 22 years of age, and had never laboured under any disease of the generative organs, save the one for which he now sought relief. His habits were regular, and his constitution good. On examining the scrotum, I found it swollen to four or five times its normal size; and by manipulation, I discovered that the left testicle was enlarged and hard, so as to increase greatly that side of the scrotum, in which it is situated,

Observing a lengthened cicatrix in the anterior part of the serotum of the same side, my patient informed me, that he had been operated upon for hydrocele by a Brazilian surgeon about 18 months previously; which operation was performed by making a perpendicular incision of about an inch and a half long, dividing the scrotum and subjacent coverings of the testicle, until the eavity of the tunica vaginalis was exposed. The fluid of course escaped without difficulty, and a piece of India rubber bougie was inserted in the cavity, in contact with the testicle, having one of its extremities protruding at the wound. In this manner the external wound was closed around the foreign body, and the same treatment persevered in for three weeks; at the end of which time the bougie was withdrawn, and the wound thoroughly closed. The consequences of this treatment had been, painful swelling and enlargement of the testiele, which, at the time I saw it, was stated to be increasing, rather than diminishing; the cavity of the tunica vaginalis from this treatment, seemed to be quite obliterated; and fluctuation at no point of its extent was perceptible. Since the cure of the hydrocele had been in the above manner performed, the cavity of the tunica vaginalis of the opposite side had gradually been distended with scrum: so that it surpassed in size the other side of the scrotma in which the swollen testicle was located. The patient had little or no pain on the side of the hydrocele; whilst the uncasiness of the other was very troublesome. He had been under the necessity of wearing a suspensory bandage ever since he had been operated upon; and the weight and size of the scrotum and its contents were daily in-

On ascertaining satisfactorily the seat and nature of the disease. I preposed to puncture the scrotum on the hydrocelic side with the trocar, withdraw the fluid, and inject a stimulating mixture of spirit and water, to excite adhesive inflammation. To this proceeding he objected, on account of the pain which he suffered consequent on the former operation, which had not even at this time altogether ceased; and thus I was under the necessity of trying the effects of local applications. Finding all the corporcal functions healthy, I ordered no constitutional remedies; but as a local application—Emp.Hyd. \(\bar{z}\)iv. Pulv.Camph. \(\bar{z}\)i, Misce bene et ft, Emp. This was spread on common lint and so cut that it lined the inside of the net bag of the suspensory bandage, and I ordered the application to be renewed every third day. At the end of six days, my patient returned complaining of great pain of the scrotum; and, on examination, I found the enticle pretty well peeled off from the whole surface which had been in contact with the dressing. At the same time the scrotum seemed much more swollen than before, and the dressing had been kept moist for the last three days by the serous discharge emanating from the surface. On the patient stating that he should be unable to apply the same treatment longer, unless he should confine himself to his room, I changed it for that of Cerat. Calaminae, to be applied in a similar manner, and changed twice a day. At the end of one week from this time, I found the surface healed, the swelling of the substance of the scrotum, which had been caused by the previous treatment, gone, and the quantity of fluid in the hydrocele apparently lessened, while the opposite testicle also seemed to be somewhat less bulky. Encouraged by these appearances, I applied the original plaster in a similar manner to the scrotum, which after being continued for eight or nine days, did not produce much irritation of the surface, while the fluid in the tunica vaginalis decreased more and more, and the testicle of the opposite side favourably diminished in size. This treatment was persevered in for three weeks longer; at the end of which time the whole third had been absorbed, and the swollen testicle exceeded the size of the healthy one, only in a very slight degree.

TWO CASES OF "FITS," WITH REMARKS. By C. J. B. Aldrs, M.D. Physician to the London Dispensary, and Lecturet on Medicine at the Charlotte Street School, (For the 'Militeral Times.')

Case 1. I was requested to visit Martha B., æt. 16, Sept. 29th last, residing in Hunt Street, by her mother, who stated that her daughter was in a fit, and had been so since two o'clock in the morning, and that she had suffered from a fit some time before, for which she was bled. I went immediately from the Dispensary, between twelve and Lo'clock, and found the girl in bed, apparently insensible, and closely watched by her grandmother, who said that the patient had not spoken since two o'clock, although they had tried to make her sensible in every way they could think of. Pulse natural; skin warm; bowels said to be costive; catamenia regular. I called loudly to her, but received no reply; she seemed to be in a complete state of stupor. On trying to raise the eyelids, in order to examine the condition of the pupils, I found that she endeavoured to close them again. Suspecting the ease to be hysterical, I told the mother to bring me a jug of cold water, and threatened to throw it over her if she did not return an answer to my questions. She had previously experienced a sensation of choking in the throat at different times. When the water was brought to me, I renewed the threat, and observed the cyclids begin to move. I was about to pour the water over her head, when she sat up in the bed, without opening her eyes, or returning an answer to my questions. On repeating the threat, she opened her eyes, and began to speak, to the astonishment of her anxious and wearied relatives. Aperients and antispasmodics, with cold affusion, every morning, were ordered. I told her to visit me at the Dispensary on the following Monday, which she did, and is now quite recovered.

Case 2. The following ease is of a more serious nature, which occurred Oct. 24th, inst. The mother of the girl applied to me at the Dispensary to visit Sarah P. at, 121 residing in the Horse-ride, who, she said, had not spoken since 9 o'clock the same morning. I went immediately, between twelve and one o'clock, and found the patient lying in bed in a fit. Pulse oppressed; skin cool; bowels open; urine free; head warm; lips livid; foaming at the month; stertorous breathing. The pupils were contracted at first; but afterwards became dilated; feet cold; arms contracted across the chest; mouth firmly closed from rigid contraction of the muscles. Previously to her being attacked at 9 o'clock, she asked her mother for some meat, which was refused. Soon after the mother observed " a working of the fingers," and coma supervened. She had pursued her occupation of fancy trimming until

attacked by measles, since which time she has been subject to occasional attacks of "asthma," according to the statement of her mother. Never had a fit before. Mustard poultices were applied to the feet, cold water to the head, and blood was taken by Mr. Gayton, the apothecary to the Dispensary.

After the abstraction of blood, the muscles of the mouth relaxed sufficiently to allow me to administer an active purgative, a portion of which returned through the nostrils, and the month became again firmly fixed. means were resorted to with a view to restore her, but she died in four hours afterwards. The permission of the parents having been obtained, her body was examined the next day. The mouth was firmly closed, and the abdominal muscles were very bard and rigid.

Head,—On opening the longitudinal sinus nnich dark fluid blood escaped. TOn removing the dura mater the surface of the brain was observed to be congested to the last degree. The ventricles contained no effusion whatever, and there was no trace of ruptured blood vessels in its substance, which however was greatly con-

Chest and Abdomen -Old adhesions were detected between the pleura pulmonalis and pleura costalis of the right side of the chest, the lung of the same side containing more blood than natural. The heart, left lung, and abdominal viscera, were all healthy. The alimentary canal contained a small quantity of feenlent matter.

Remarks.—The foregoing cases present a remarkable contrast, the first being a case of hysteria simulating apoplexy, the second presenting an example of apoplexy from cerebral eongestion, which, most probably, was connected with the morbid changes in the lungs, affording an impediment to free circulation of the blood through them. She had been affected with headache at different periods for a long time. The case of hysteria affords an example of the necessity of not having recourse to blood letting in every case of "fits," although the popular opinion may be in favour of it. mother of the girl in this case was dissatisfied at first that I did not bleed her daughter, but when she found that the patient was able to walk to the Dispensary on my next visit, as I said she would be able to do, her anxiety in regard to bleeding ceased.

DEAFNESS SUCCESSFULLY TREATED AND CURED BY MEDICATED VAPOUR DOUCHE AND THE MEATUS EXTER-NUS DILATED BY TEXTS, &c.

To the ' Editor of the Medical Times,'

SIR,-Should you deem the enclosed interesting case of deafness deserving a place in your invaluable journal I shall feel obliged by your insertion.

I am, Sir, your obedient servant, WILLIAM THORNTON, Army Surgeon, M. R. C. S. L.

, Baker Street, Portman Square, 25th Oct., 1842.

A gentleman residing in London of general good health, but of a nervous temperament has heen deaf twenty-three years, in consequence of frequent colds, but his hearing was so defective as to render his life almost a burden to him; he had applied to several (so styled) Aurists, &c., who had prescribed stimulating oils, lotions, and blisters without benefit. Upon examination of the meatus auditorius externus of the right ear, I found it was much contracted in its ealibre, by the thickening of the surround-Saturday evening, felt poorly on Sunday, and ing parts and especially the great increased which was afterwards calculated to have conwent to bed. Nine years previously she was density of the cuticle which had a white, rosy tained 9 grains; the taste of the draught at

appearance, extending to the bottom of the auditory canal (near the insertion of the membrana tympani). On injecting warm water, a dull obtuse sound was produced, as if some dense medium was interposed (the patient said that he felt something rattle in his ear); the orifice was nearly closed and it was with some diffienlty that a probe entered it; a sensation to my touch was conveyed different from that which would have been produced by the contact of a healthy membrane; whilst at the same time it did not cause the usual painful sensation. The sense of hearing was nearly lost but a watch applied to the car was audible. He could with difficulty force air into the tympanum by powerful expiration; the nose and mouth being closed, air passed freely through the left enstachian tube into the outer ear, the membrana tympani being perforated (the patient was not conscions of this circumstance). On passing the eatheter into the enstachian tube it was clearly shewn to be narrowed; the uir douche passed with some gurgling noise into the tympanum, and in the left tube the air passed freely; hearing distance of this ear was six inches.

On syringing the meatus and dilating the orifice there was not the slightest appearance of cerum but the same rosy white thickened cutiele appeared to extend as far as the evecould reach. These circumstances led me to think that it was possible the deafness depended on a thickened state of the cuticle reflected over the membran i tympani, similar to that which lined the meatus, or some morbid secretion existing between this cuticular layer and the membrane. To remove this cuticular lining I used a strong solution of acetate of zinc. In a few days, upon syringing with tepid water, several dark pieces of cuticle were washed out and the orifice dilated so much as to give a clear view of the state of the membrana tympani which appeared dult and dry. The unpleasant noise the patient had formerly complained of was now removed and from this time his hearing daily improved to the great delight of the sufferer. The medicated vapour douche used daily, after several sittings the vapour passed freely into the tympanical cavities, and his hearing gradually increased. The contraction was dilated by tents and the auditory passage anointed with ungt. hydrarg, nitrat. dilut, and ungt, iodid, comp, rubbed behind the ear and on the mastoid cells; at the same time dec sarsa concent, with potassa iodidum.

P.S.—This gentleman had been under the treatment of an Aurist five months without reeciving any benefit and said that his deafness was much increased.

administered for six weeks; under this treatment

his hearing functions were restored and cured.

HYDRIODAS POTASS.E.

To the Editor of the 'Mi previ Times.'

SIR,-The few following details, as exemplifying, in a striking degree, the occasional violent effects of a much used and favorite preparation of iodine, hydriodas potassa, you may perhaps think not unworthy of a place in your widely circulated Journal.

As I had been some time previous to March last, labouring under a slight, partially diffused, chronic emption, which I attributed to derangement of the chylo-poetic viscera, as a primary exciting cause, I resolved on trying the effects of hydriodas potassæ for its removal; with that view, I prepared a simple solution, intending to take the remedy in divided doses of 5 grains twice a-day. In making up the first dose, either from inadvertency, or from some inter-ruption at the moment, I swallowed a portion, the time, felt pungent and characteristic. The dose was taken about 4 r.m., and, with the exception of the pungent sensation in the fances, no other particular feeling was occasioned; except, perhaps, a degree of languor, until on going to bed at 10 PM, I had the ensation of a common inflammation in the fances, along with the continued characteristic impression at first given by the medicine. passed a restless and sleepless night, from the presence of considerable febrile excitement, an almost constant discharge of saliva, and a most troublesome irritation in both eyes, inflammamation of their conjunctival surface being produced, which, also, occasioned much pain and constriction in attempting to shut the eyelids; my gums were tender, and some pain was experienced by pressing on the regions of the parotid and sub-maxillary glands. The increased secretion of saliva and feverishness, subsided in the morning; and the inflammation of the eyes, gums, and throat, did so likewise towards evening: and next day, there was scarcely a trace of the peculiar effects of the medicine left behind.

In order to put it beyond question, that these rapid and somewhat violent effects, were occasioned by the drug, although, at the same time, aware that alarming symptoms had before been often observed and recorded, I collected the salivary discharge from the handkerchief I had used, after moistening it still further with water, and submitted it to the starch test, when there was immediately thrown down a copious deep blue precipitate.

My attention was the more especially directed to the uncertain effects of this valuable medicine, as I had not long previous to the time I tried it in my own person, used it to the extent of 61 drachms, in divided doses of 10 grains three times a-day, in the case of a delicate lady, suffering from an obstinate, and long continued affection of the gums, apparently depending upon disease of their deeper structure; and, although, in this instance, its administration was not followed by any marked beneficial result, still there was no bad symptom ever complained of. I believe, however, that I would not have prescribed the remedy so largely, had I not previously observed it recommended in the same doses, and for a like affection. I may add, that the medicine, applied in both cases, was procured from one of our most respectable drug establishments, the Glasgow Apotheearies' Company.

The rapidly marked, and evanescent effects of this medicine, in my case, although, easily explained by peculiar susceptibility of habit, appear to me, to be not devoid of interest; and, should you consider it so, I shall feel obliged, by the insertion of it, in your valuable Periodical.

I remain, sir, Your most obedient servant, GLORGE LAING.

teresport on Group 22d Oct. 1842.

DEATH FROM TARTAR EMETIC. JUSTICIARY COURT OF SCOTLAND. - DISCRE-TIONARY POWERS OF THE PUBLIC PROSE-CTTOR.

(For the ' Medical Limes ')

As illustrative of the views entertained in Scotland, of the responsibility of druggists, who, it may be remarked, are often grocers, or dealers in small wares, as well as drugs, the following may be quoted, as given in the Perthshire Advertiser, of Oct. 20th of the current year:—" Perth, Thursday, Oct. 15th.—The Court assembled this morning at ten o'clock (when, from the illness or unavoidable absence of one of the ordinary judges, the Lord Justice The wound extended about half way across the

General, who is also President of the Court of Session, and the Lord Justice Clerk presided). Robert Henderson, grocer, Leven, County of Fife, and William Lawson, shopman to the former, accused of culpable homicide; he, Robert Henderson, having not such knowledge of medicines as to qualify him for a druggist, and having reeklessly employed the said William Lawson, although he too was ignorant of the proper kinds and quantities of medicines that could be safely given; and that the said William Lawson, on 20th January, 1842, sold to Ann Johnstone sixty grains of tartar emetic for her father, James Johnstone, who, on taking that quantity, suddenly became very ill, and died in consequence. Both panels pleaded " Not Guilty." Advocate Depute then stated to the court that it was his desire that the diet should be deserted against the prisoners. The ease was before the last Assize held here, and had since been before the High Court of Justiciary at Edinburgh; besides their regret for the unfortunate circumstance had been lasting and severe. Under these circumstances, he thought that he was justified in that request, the more especially as it was not altogether clear that the person died solely in consequence of the medicine administered to him. The diet was accordingly deserted against both prisoners.

In the absence of information as to the particulars of this case we are precluded from making any remark as to the previous state of Johnstone, and have no doubt that the public officer (acting for the Lord Advocate) conceived that he was only doing his duty, in following the very lenient course adopted, in dismissing the prisoners from the bar of court. But it may very properly be asked, what security have the public against a repetition of a similar course of reckless procedure on the part of these village "Hornbooks," (see Burn's "Death and Dr. Hornbook"), whose ignorance is only equalled by their presumption and enpidity. The conclusion drawn by the public prosecutor, " that it was not altogether clear that the person died selely in consequence of the medicine administered to him," is evidently at variance with the previous part of the libel, when it is stated that, James Johnstone, who on taking that quantity, suddenly became very ill, and died in consequence.

The opinions of Rusori, as to the effects of antimony are well known, and at variance with the general experience of medical men. But in the admitted powerful effects of tartar emetic. even in small doses, it requires a more than ordinary stretch of judgment, to suppose that sirty grains of tartor emetic, could in ordinary circumstances, be administered without danger to life. And that ignorant and unqualified persons, should be permitted even, to sell such medicines is a libel on the laws of the land.

ROBERT ANNAN, L. R. C. S. E.

A CASE OF TETANUS TREATED SUC-CESSFULLY, BY OFIUM IN LARGE DOSES.

In the Editor of the "Medical Times,"

SIR, Should the accompanying case be deemed worthy of a place in your valuable Journal, you will much oblige,

Your obedient servant, THOMAS JOHNSTON, M.R.C.S., &c.

We reclaim, 26th Oct. 1842

Sept. 18th. John Smith, a wheelwright, aged 20, nearly out off the extremity of the

nail, near its root; the bone was completely divided, and the artery bled so profusely, that I was obliged to secure it by ligature. wound was closed by strips of adhesive plaister, and for some days, union by the first intention appeared probable. The ligature came away with the dressings on the eighth or ninth day. About this day he was dressed daily with unguentum resinar, the wound beginning to slough and look unhealthy; however, he suffered little or no pain. On the 24th, my assistant, after dressing him, informed me that be complained of stiffness in his jaw, and a little sorcness of throat, for which he had given him a calomel bolus, and an aperient draught, supposing the symptoms were caused by cold; but, the patient himself imagined, they were occasioned by his having eaten a large quantity of nuts. Judging, from this account, that he was affected with tetanus, I called on him the following morning, and found his jaw so nearly closed, that I could not introduce the point of my fore-finger further than about half way up to its nail. The museles of the neck, particularly the mastoidei, felt rigid; he complained of great stiffness about the neck and jaw, but had no difficulty of swallowing: the wound caused little or no pain. I immediately gave him sixty drops of tineture of opium, and ordered the same dose to be repeated at bed-time, and the finger to be wrapped in a bread-and-water poultice. The opening medieme given him vesterday operated several times

26th.—No material alteration: says he slept well, but that his neck and shoulders are very stiff. Desired him to remain in bed, in order that perspiration may be promoted, and take the following medicines:

R Pulveris Opii, gr. vj. Camphoræ Bj Hydrarg, Chlorid, gr. iij. Confeet, Opii, q. s. M. div. in pil. xij cap. j. 2da. bora.

R Spiritus Ætheris Comp. 31. Tineturæ Lavand. Comp. 388. Misturæ Camphoræ, 5xi. m. Fiat mistura cap. cochl. ij post pil.

27th .- Something better to day: I can now introduce the point of my finger into his mouth, nearly up to the first joint; stiffness extending between his shoulders, but he can readily bring his chin down to the sternum, and move his head in all directions. No difficulty of swallowing, or spasmodic paroxysms, but a constant aching pain: pulse natural; tongue furred; thirst moderate. Repeat the medicines. Ordered to take wine and nourishing broths; but, to remain in bed.

28th.-Much the same; no stool since the 25th.

R. Infusi, Sennæ, kij. Station sumendus. Repetantur Pilula et mistura.

29th.—Bowels constipated: in other respects as yerterday.

Repetatur Infus. Sennæ.

R Aloes.

Camphorae, aa. 388. ut.

Divide in pil. xij. cap. ij. 2da, horá donec alvus respondet bene.

Oct. 2nd. - Bowels have been very freely relieved. He can now open his mouth sufficiently to admit my finger with tolerable facility; but, the muscles of the neck and back, are so powerfully contracted, that he can neither move his head, which is strongly drawn backwards, nor bend his body; complains of great pain in his shoulders and hips. A large blister to be applied between the shoulders and anoR Pulveris Opii. Camphora,

Pulveris Ipacae, aa. gr. xxiv. Ext. Hyosciam, q. s. M.

Fiant pil. xij. cap. i. 2da. horâ. R Spir. Ether. Co. Spirit Ammon. Co. Tinet, Lavand, Co. aa. \(\frac{7}{5} \) ss. Mist: Camphora, 3xss. M.

Fiat mist, sumat cochl, iij, amp, post pil. 3rd. Somewhat better to-day: removed the slough and carious bone; wound granulating, and gives very little pain; says he sleeps well; has no headache; thirst and tendency to fever; moves his arms and legs with ease; but, cannot bend his body, or raise his thighs. No stool since the 1st,

R Pil. Hydr, Chlorid, gr, iij. -horâ somni.

R Infusi Sennæ, Şij. mane.

The other medicines to be omitted till the bowels have been evacuated,

5th-No material alteration: the bowels still costive; a common glyster to be injected, and repeated in the evening, if necessary.

7th .- Much the same : lies like a log in the bed, having no power to move his head or trunk of the body. Two enemata were thrown up, but with great difficulty, in consequence of the strong muscular action, and caused so much pain, that he begs they may not be repeated.

R Ol. Ricini, §j.

Statim sumend, et rep. post tres horas si opus sit.

R Ext. Hyosciami. Tinet. Opii, aa. 5j. Spiritus Æther. Comp. 5ss. Aquæ Menth. Pip. 5vi. M.

Cap cyathum post operationem Ol. Ricini. 8th.—Both doses of castor oil were taken, and produced several evacuations. Rigidity still continues unabated.

Repetatur mistura et Adde Tinct. Opii, 5ss. 9th .- No abatement of rigidity, except that he opens his mouth with rather more freedom. Dislikes the mixture; several doses of which, have been immediately rejected; very little sleep.

R Opii, gr. iv. statim.

R Tinet. Opii, 5iij. Tinet. Lavandulæ. Co. 5ij. Aquæ Pulegii, 5viij. M.

Cap. nt antea.

10th.-No sickness since yesterday: rigidity much the same; but less pain.

R Pulveris Opii. Camphora, aa 9j. M.

Divide in pil, viij, Cap, ij, a sing.dose misturæ. 11th.-Much better in every respect: sleeps well; but not more than patients usually do after a full dose of opinin.

Repetantur Pil et Mistura. The easter oil to be repeated, if necessary. 13th,-Has omitted several doses of his mixture and pills, having slept well. Castor oil repeated yesterday, operated effectually. Can raise himself a little, but not sufficiently to sit

Repetatantur Pil. et Mistura.

20th.-Much better: managed to sit up, with some difficulty. His mixture and pills were continued until the 23rd, when I found him so far recovered as to be able to walk across the room. The last two days he has slept almost continually. Has been sick several times this morning, and perspires profusely: very little pain, or rigidity; opens his month nearly to its full extent. Conceiving now the further use of opium to be unnecessary, I discontinued it altogether, and ordered be equivalent to another volume annually. The in low confined apartments,"-p. 42

the following mixture, and a continuation of his wine and nourishing diet.

> R Spiritus Ammon, Co. 3ij. Mist. Camphoræ, ǯiij. Infus, Gentian, Co. 5v. M.

Cap, cyathum tec die,

He continued this plan till the 25th; when, being perfectly recovered, I desired him to discontinue all medicines; dressed his tinger with ungmentum resinae (which had hitherto been poulticed), and recommended him to use daily exercise in the open air.

I deem it necessary to state, that he can, at the time of my writing, open his mouth as well as before the receipt of the injury, and eats with the same freedom and ease, as hitherto.

THOMAS JOHNSTON.

THE SYDENHAM PUBLISHING SOCIETY.

To the Editor of the ' Medical Times '

SIR, -Allow me through the medium of your downal to draw the attention of the members of the medical profession, to a proposal that has been occupying the attention of several gentlemen for some time past for the formation of a medical society, on the principle of the Camden Society, for the re-publication of valuable and scarce medical works of this and other countries, one copy of each book to be distributed to every paying member. My object in addressing you is to beget discussion and advice, as to the best mode of establishing the society, and to ascertain, as far as practicable, the amount of interest that, would be taken in it by the profession, and consequently the degree of support to be anticipated,

I find, by a document now before me, that the Camden Society, which was instituted in 1838, munbered 900 members ere the close of the first year of its existence. The members were at first limited to one thousand, but the applications were so mimerous, that a large number were speedily admitted. It was formed for the publication of early historical and literary remains in the most convenient form, and at the least possible expense that is consistent with the production of useful volumes. The governing body consisted of a president, council, auditors, and secretaries in the municipal cities of the kingdom. It is now, I believe, one of the most prosperous societies in England. The success attending the Art-Union and other institutions, shows the advantages to be derived from the aggregation of small subscriptions, and I see no reason why the medical profession should not be enabled to originate and sustain a society, the professed object of which is to acquaint them with the buried lore of the princes of medicine, buried, I say, in works, which are inaccessible to the great majority

of practitioners.

The plan pursued by the Camden Society might, to a certain extent be adopted by the Sydenham. The number of members should be unlimited, all classes of the profession admitted as subscribers, and one guinea annually be the amount of the subscription. A governing conneil should be appointed to make the necessary arrangements, confor republication. These I would not confine solely to the works of our predecessors; there are many productions constantly issning from the press of our continental brethren, with which we ought to be acquainted, but from their non-publication in this country, are unable so to be. An occasional translation, or original work, might, therefore, he added to the Sydenham collection without injury to the members. The medical profession numbers, as I think, upwards of 20,000 in the three kingdoms, and it is not surely too much to expect that one-tenth of these would be anxious to avail themselves of the advantages offered by the establishment of such a society. With that number, from the calculations I have made, I am assured it is perfectly possible to supply tenvolumes annually to each member, or books to the value of five gnineas for the annual subscription of one, nor would others limit its success, for it must be borne in mind that every additional 100 members would

prospects thus offered are not the result of a too ready credence, but are drawn from calculations carefully and repeatedly made-nor will they surprize any one, when it is remembered that the profits of the bookselling trade are not to be accounted for, the only incidental expenses beyond the mere publication, being for chambers clerk, coals, &c. Original works, when given, will of course make a difference, as the author must be paid for his composition. I should be glad to learn the opinions of your subscribers with respect to this proposal.

I am, Sir, , Sir, Yours obediently, F.

REVIEWS.

Observations on the Admission of Medical Pupils to the Wards of Bethlem Hospital for the purpose of Studying Mental Discases, Second Edition, by John Webster, M.D. one of the Governors, &c. &c.

THE medical profession and the public are indebted to Dr. Webster for this pamplilet. It is indeed strange that a disease that degrades man below the very brutes, should be so very little studied by the profession, or that so little opportunity should be afforded the profession of acquiring a practical knowledge of this most lamentable of all ailments. Yet such is the fact and we can hardly account for it upon any other principle than the incorrect notions so long prevalent in society and in the profession regarding the nature of insanity. So long as insanity was believed to be a disease of the mind, its nature was considered mysterious and inscrutable and no inducement held out for its investigation or study. But since insanity has been discovered and provid to arise from morbid conditions of the brain—to depend upon corporeal causes—to be in fact a corporeal disease, susceptible of cure like every other corporeal malady, more correct and rational views of its treatment have been adopted and the profession are now alive to the horrors of the old practice. Lunatic asylums should be viewed as so many lospitals for the treatment of diseases of the brain and no argument can be used for excluding medical students from witnessing the practice of such hospitals that is not equally eogent in reference to every other infirmary or medical hospital that exists. These are views now generally entertained by the profession but the public are not so well informed, and the pamphlet of Dr. Webster written for the enlightenment of the Governors of Bethlem Hospital cannot fail in producing a good effect. Dr. Webster has both our thanks and good wishes for his landable efforts.

Commentaries on Some Doctrines of a Dangerons Tendency in Medicine, and on the General Principles of Safe Practice. By Sir ALEX-ANDER CRICHTON, M.D., F.R.S. Physician to the Emperor of Russia, &c.

SECOND NOTICE.

In accordance with our promise made the week before last, we resume the consideration of this very interesting work.

The "Second Commentary" commences with an account of the typ ions fever in London in 1790. At this period the doctor was one of the physicians to a public Dispensary in Featherstone Buildings, Holborn, and he informs us that he does not recollect one year to have passed over while he was attached to that institution-

"In which typhons fever did not originate almost every spring and antumn; and also frequently during winter, at one and the same time in several distant spots; but always in dirty and narrow lanes, and in damp courts, in which the wretchedly poor inhabitants were crowded together

The doctor observed that this fever was most prevalent in the lanes and courts of St. Giles, chiefly tenanted by the low Irish, and the disorderly of both sexes, and on his appointment some years after to the Westminster Hospital, he witnessed the same train of symptoms among the poorer classes of Pimlico, and its neighbourhood, for at that period, he tells us, the parish bore a very different appearance from what it exhibits at present - It was then not so well drained, and as many parts are below the level of the river at high water, it partook at times of the unhealthy malaria of marshy land; so that typhous fever, and bad intermittents, frequently prevailed among the poor. He then adds:-

"The recollection of these facts often brings to my memory many thoughts which presented themselves to my mind in those days, relative to the necessity of a well-regulated and duly authorized medical police, or board of health, not only for London, but for all our great cities, and more especially for some of the deusely-peopled manufacturing ones, in which there was a disgraceful neglect of the health of the inhabitants, as far as the free ventilation of air and removal of filth, and other local causes of malaria were concerned,"-

The Medical Times can do little more than re-echn this opinion. Had a medical police existed, the atrocious crime of creeting a hospital in the midst of a reeking grave-vard, crammed to the surface with the putrid bodies of the dead, as is the case with the charnelhouse (so called) in Portugal Street, would not, could not, have been perpetrated. Medical Times, however, has so recently exposed this monstrons violation of decency, this unblushing outrage on common sense, this desperate attempt on public health, that it would he tautological to go the same ground over again; but it is impossible to refrain from adding, that a more wicked, a more selfish, or a more disgraceful act of heartless ernelty to the poor, of irreverence for the dead, and contempt for the feelings of the living, was never perpetrated by Nero in the zenith of his depravity, or Ivan, the Terrible of Russia, in the fulness of his flagitious career, though the latter sometimes indiscriminately assailed peaceful villages with his armed myrmidons, and setting fire to the houses, butchered man, woman, and child, with a vivid and remorseless cruelty, that seemed rather the attribute of a fiend than the vice of a human being. Indeed we do not know but that Ivan's conduct was less cruel in its consequences, for his "single blow left little work for two," but the Portugal Street abomination forms the nidus of disease, which in its ramifications leads-God knows where !

To return: Typlos, when first appearing in the localities of St. Giles and Pindico, did not appear to be contagious, but when several members of the same family were attacked, and were confined in the same apartment, shutting themselves up close " to keep out the cold," a poison was generated by the confined exhala-tions of their bodies, "which soon affected many of the neighbouring families; but still the fever seldom spread far."-(p. 13) generally assumed the character of mild typhus, but when a very cold and damp autumn succeeded a very hot summer, it had a severer character, and was frequently developed with all the aggravated symptoms of typhus gravior, complicated with petechiae and vibices.

Our author does not recollect to have seen the bilious synochus of Sydenham prevail as a general epidemie, though a few soldary cases appeared now and then. In general it was easily cured, if in the beginning the brain was not implicated, and profound coma and stupor were absent. Neither did violent delirium, though an untoward symptom render the dis-

ease incurable. A free admission of cool, or even cold air, leeches to the neck, and blisters on the inside of the thighs, and between the shoulders; frequently washing the head, face, and neck, with cold vinegar and water, together with the internal administration of the nitrate of potass, and the liquor ammonia acetatus, to which were added the tartrate of antimony and calomel in very small doses frequently repeated, were the most effectual remedies for diminishing the cerebral affection. Delirium in a moderate degree was never considered as an unfavourable symptom. In no case was the Lan et employed for its removal. It was never decined necessary. The violent headache and mild delirium generally yielded to a blister between the shoulders, when assisted by the other remedies just enumerated. But when the disease began with a profound coma, its termination was almost always fatal, p. 44.

At this period Sir Alexander says the treatment of typhus was nearly uniform-it was the same which had been handed down from the times of Sydenham; and the physicians, whose assistance and advice the doctor was accustomed to solicit, were the father of the late Dr. Warren, Dr. David Piteairn, and Dr. Reynold's. All these practitioners abstained from blood-letting at every period of the disease except under very particular circumstances. Emeties and purgatives were sparingly employed, the practice agreeing in this respect with the advice of Cullen. The bowels were relieved when requisite by enemata, and in the first stage of the fever, all tonics and stimulants were avoided, while refrigerants and the saline diaphoretics, with small doses of antimonial wine, tartar emetic, or ipecacuana were freely and frequently given. Some practitioners gave the compound powder of contraverva as a diaphoretic in the first stage. In the second and subsequent stages of the disease, when sustaining the failing powers of the patient was imperatively indicated, mild mutritive drinks, wine in suitable doses decoction of the Virginia snake root, infusion, or decoction of einchona, to which the saturated lemon juice, or Riverins's draught was almost always added when the skin was dry. (p. 45).

To allay hickup, tremor, irritation, and nervous languor, musk, valerian, camphor, Hoffman's ether and laudanum were exhibited, very often the mithridate or theriaca, or in lieu of it, the old confectio cardiaca with, or without opium, was administered also.

Varieties of this fever of course demanded variety of practice. For example,—bilious typhus required the free use of emetics, and afterwards calomel, or other active purges; while the petechial typhus called for a liberal use of the mineral acids, and for larger doses of wine, which was found to be the best of all febrifuges.

Blood, even when the fever commenced with catarrhal symptoms and pleuritic pain, was seldom extracted, and even when venesection was resorted to, the quantity lost did not execed ten ounces.

" It was seldom repeated a s-cond time; and yet I have not seen typhus fever in all its forms more successfully treated than it was at that time. I have lived long enough to have witnessed many strange innovations in the mode of treatment, and I am sorry to add, that, judging by the results, they cannot be counted as improvements,-p. 46. The be Continued 3.

MELTINGS FOR THE ENSPING WEEK.

Nov. 7. Munday, Medical Society of London, 8 P.M.

7. Monday Methed Society of London, 8 Feb. Late mode and Society, 8 Feb. Late mode and Society, 8 Feb. Zimologic all Society, bad Just 8 Feb. Zimologic all Society, bad Just 8 Feb. Westmitted Hospital Medical Society, 8 Feb. 10, Thursday, 12, Saturday, 4 Medical Society, 8 Feb. Westmitted Medical Society, 8 Feb. Westmitted Medical Society, 8 Feb. Wathermatical Society, 8 Feb. Mathematical Society, 8 Feb.

FOREIGN LIBRARY OF MEDICINE, SUR-GERY, AND THE COLLATERAL SCIENCES.

E. the rely compiled for the 'Mintext Times," from French, Italian, and other Continental Periodicals. TRESCH.

CIVIALE, Memoire, &c.—Memoir on the Pathological Anatomy of Strictures of the Urethra— Begin, L. S., Mémoire sur l'Hémorrhagie, &c.-Memoir mon Hemorrhage, after the operation of cutting by the perincal method, with the best mode of treatment,- LACORDAIRE, TH., Monographie des Erotyliens, famille de l'ordre des valenpteres, Svo. 9s .- LEFEVRE, AMEDEE, Recherches Medicales, &c.-Medical Inquiries to illustrate solutions of continuity of the stomach, called perforations of the stomach,—Becquerel, Traité de Physique, &c.—Physics considered in its relation with Chemistry and the Natural Sciences, 8vo. 7s. 6d. -Delessert, Recueil de Coquilles-Collection of Shells described by Lamarek, and not yet figured. -Breme, F. Dr. Essai Monographique, &c.--Iconography of the Cossyphides, 1st part, 12s. --JAUBER of Spach, Illustrationes Plantarum Orientalium-A Collection of newly-discovered, or rarely-known Plants of Western Asia, folio, Livns, 1 & 2 .- Considerations Génerales sur la goutte it les rheumatismes aigus, et chroniques, traites par une methody depurative vegetale aussi sure que facile.—General Observations, &c.-BOUCHARDAT, A., Noureau formulaire magistral, 18mo.—New Authorised Formula, &c. 3s. 6d.— RAMALGE, Observations Pratiques, &c.-Practical Observations upon the cure of scirrhous and cancerous affections, without the employment of sharp instruments.

** The French works above announced, may

be had through Dulan and Co., Soho Square.

MEDICAL NEWS.

QUACK MEDICINES .- In the Nottingham Journal of last week, appeared two notices of inquests: - one on a child, who died in consequence of a dose of Godfrey's Cordial being administered to it by its mother, but without any evil intent; another on an infant, who, according to the medical evidence, died from convulsions, probably caused by the improper and incautions administration of a certain compound, called Dale's Mixture. Mothers ought to know and remember, that most of these advertised mixtures for children contain laudanum —a medicine which ought never to be administered to children, except by the express direction of a properly qualified medical practitioner. Gateshead Observer.

INSURANCE COMPANIES AND MEDICAL Mex.—At a meeting held at the Lion Hotel, Shrewsbury, on Tuesday Oct. 26th, Dr. H. Johnson in the chair, it was unanimously resolved by the undersigned, on the motion of R. Cartwright, Fsq., seconded by W. I. Clement, Esq. That in unison with the resolutions of a British Medical Association, passed in 1837, the present meeting pledge themselves not to answer the enquiries of Insurance Companies, unless accompanied by a fee of one guinea, Robert Cartwright, Thomas Jones Drury, M.D. James Bratton, William Onions, Sam. Wood, Edwin Foulkes, John Dickin, I. Y. Arrowsmith (for Wynne, Arrowsmith, and Stephens) W. J. Clement, Daniel Crawford, Henry Kente, W. Griffith, George P. Gill, C. T. Hughes Clarke, I. N. Heathcote, Secretary, Henry Johnson, Chairman, Mr. Piddnek, Surgeon in the same district, has written to us, expressing his full agreement with the object of the institution.

GRATITUDE FOR MEDICAL SERVICES -The inhabitants of Ballyshannon are about to erect a Monument to the memory of Dr. Crawford, late Superintendent to the Dispensary in that town. Subscriptions or this purpose have already been handed in to the amount of nearly £200. Dr. Simon Shiel has been elected his Successor.

ROYAL COLLEGE OF SURGEONS, LONDON.

List of gentlemen admitted members on Friday October 28th, 1842 :

W. M. Dalgliesh, M. M. Bull, J. Rogers, J. H. Forster, H. C. Hildash, E. Moore, J. Wade, R. B. Penny, W. Dalton, J. H. Steele, R Barnes, T. S. Lee.

ADVERTISEMENTS.

REGULATIONS OF THE ROYAL COLLEGE OF SURGEONS.

MEDICAL PRACTITIONERS.

BY a late REGULATION of the College of Surgeous, Gentlemen in actual Practice, desirons, of obtaining the College Diploma, are to be admitted to Examination without practice, desirons, of obtaining the College Diploma, are to be admitted to Examination without practical Examination, which is the college, and to make the college, and to meet the convent qualities for Examination at the College, and to meet the convent seal of a Practiconers and Senior Pupils, receives Gentlemen into his House by the month. Pupils, who have completed their curriculum of Study, previously to the present month, accordant to the old regulations, are permit let by present themselves for Examination, according to the soft segulations until Jamany next. Apply by Mr. Dermant, Charlo te Street School of Medicine, 15, Charlotte Street, Bloom-bury.

TO MEDICAL STUDENTS.—Dr. POWER will continue during the season to hold his CLASSEs for the Instruction of Gentlemen preparing for Evanimation at Apotheratics (fall, the College of Surgeons, London University, and Medical Itoards, Class hours, 8‡ till 12; 2½ (fill); and 5½ (fill 7; Impire at Dr. P.'s Lecture-room, 7 Maze-pond, Guy's Hospital or at 47, Nelson-square, Blacktriars.

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MONS, MARIOT DE BE VEVOUSIN (from Paris) begs to inform his Populs and the public that he is now resuming his ULASSES at the Chambers, 32, Londonard Street, City, and Jos, Strand, but the Season. The terms, the days, and hours of attendance, are the same as before. A Prospectives may be had at either of W. B. residences, N. B. – M. De R. Striginal System expublished by Sor 17 a N. P. vy, 131. Fleet Street, and sold by all booksetlers and vendors of new Publications. Price, each Les on 9d.

Every learner should unlastitlengly adopt this system.- Count

MR. FOSTER'S SALE.—The great SALE

M. R. FOSTER'S SALE.—The great SALE of TINENBRAPERY GOODS amounced to take place by the FOSTER, i. NOW ON at the center of Flore Street, being the outer Stock of the brewst wholesale trading firm, in the City.

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The magnitude of this Stock can only be known by inspecting the cite-monts, which, from the immense quantities shown on this oresticut, often perchar advantages to Shippers, Wholesale Dealers, Limerant, on tamilles furnishing.

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In the upper rooms are cass of superb Damask, English and Fraction, Table Cloths, and various below in tree, Seetch, and Russing and the property of the control of the property of the control of the property of the

In the upper tooms are case of superb Damask, English and Fu-reign Table Cloths, and various bales of Irish, Scotch, and Russia Lineus,

thems.

The sale for this week consists principally of Linens of the lines that acts, and the reduction is enamiteed to the following extent, as will be seen on inspection.

So precessed Bernac's knest Coleraine Linens, of the origin of value of 1s, 9d and 2s, per yd., will be sold at 25 yds, for - 25 to 100 per ces of the lines murders, so that be for the weir of the modulity, or persons wishing fine Linens, 25 yds, for - 12 to 100 per ces of the lines murders, so that linens, 1st were bounded from long directs of the lines that linens, 25 yds, for - 12 to 100 per ces of the lines that linens, 1st were bounded from long directs of the lines's stort linens, 1st were bounded from long directs of the lines's stort linens, 25 yds, for - 21 to 100 pieces finest Unckahacks for chamber towels, say-pence three turnlings per yard.

The Steetings and Table Linens are all of the finest descriptions, the creative qualities having been sold that the trade. The prices will be, for Linen Sheetings, fine qualities, 3 yds, vide, this did the pala, and those of the very linest descriptions, full bleached, and of the original value of as bid, or 6s, per yds, will be reduced to 29s, the pair.

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18, 2d., or the dozen 600 superb Dannsk Cloths, full 3 yds, long, valued as per-book, at 25s, each, will be sold each. Ahmit 160 strong Linen ditto, full 3 yds, long, suitable for kit-10 6 chen use, each

chem use, each Besides about £3,000 worth of the most curious and expensive Table Cloths and Napkins, many with coroners, Tandscapes, and embenatic designs, varying from three for eight yel, long, many of the original value of ten enumers cach, will be sold, being six yards long for 33s, and ms. 4,000 dozens of Napkins are reducedfrom loss, to 8s, nd, the dozen, and several sizes as low as 3s, 6d, to 5s, 6d.

the duzen, and several sizes as low as 38, 64, to 58, 64.

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A Sournal of English and Foreign Medicine and Medical Allairs.

No. 161. Vol. VII.

LONDON, SATURDAY, NOVEMBER 12, 1812.

FOURPENCE.

Por the convenience of Subscribers in remote places, the Weekly Number are re-issued in Monthly Parts, statched in a Wrapper, and torwarded with the Macazines. Orders for the Stamped Edition [108, 104 per Hill verr, Post-free in advance,] are received by an Hood seller or Newman, or may be directed to J. A. Cuthie, Frap, at the Medical Time, Office, (the Linest Office), London.

SUMMARY.	1		-3	1 2	1 =	1 %	1 1	1 1	FROM THE CON-	
Cases of Peritoneal Section 99 Lectures on Chemistry, by John Scoffern, M.D. 160 Lecture on the Anatomy and Physiology of the Nervous System, by Professor Owen, F.R.S. 161 Royal College of Surgeons, London 101		deep	Thirst	Motions	rine	Surface	Tongue	Pulse	CLUSION OF THE ATH DAY TO THE TERMINATION OF THE CASE.	
On Socale Communic by Mr. Greetwood 102 Cartino to Medical Me 1 102 Curve of Deafness, produced by Enlargement of the Tons 18 Curability of Consumption 102 Remarks on the Execution of the Organs duting Sleep-	in the day—a clyster to be given in	All night.	None.	None.	4 times 3xxiv.	Moist.	Clean.	Very soft	Oct. 12th, 5 o'clock p.m.	
walking 103 Mr. Smith on the Escape of Calculi, &c. 103 The Malpractices of Medicines 101 Examination at the University of London 104 Extracts from Foreign Journals 104 To Correspondents 105	Pulse less rapid, very soft—a mo- tion had followed the last clyster, very copious.	Nearly all night.	None.	One after elyster	3 times 5xxi.	Moist.	Clean.	95 Very soft	Oct. 13th, 5 o'clock p.m.	
OUR LEADERS—Meeting of the British Medical Associa- tion—The forthcoming Regulation of the College of Singeon—Pension to Professor Owen	Dressed the wound, all the suture- removed—wound requires but little dressing—lightures not come away— For diet, more generous some added.	All night.			Twice Saraii	"Mast.	Clean	\$0ff.	Oct. 14th, dirto.	
Reviews 109 Periscope of the Week 111 Apothecaries Hall 113 Advertisements 113	No restrictions as to diet—rapidly improving in trength—sitting up allowed.	Alleright.	None.	Two	Tub.	Minist.	Clean.	81	Oct. 15th, ditto.	
CASES OF PERITONEAL SECTION FOR THE EXTIRPATION OF DISEASED OVARIA BY THE LARGE INCISION FROM STERNUM TO PUBES,	Wound requires little or no dressing —continues well.	All night.	None.	Two naturally	Twice-	Moist.	Civan.	8	Oct. 16th, ditto.	
SUCCESSFULLY TREATED. By CHARLES CLAY, Member of the Royal College of Physicians, London; of the College of Successes, Educators, and Lecturer on Medical Jurisprodence, xc. Piccadily, Wurche dec.	Continues well.	Slept	None.	Onc.	Fre-	Moist.	Chatt	31	Oct. 17th, ditto.	
(Continue from page 8.) SUMMARY From the conclusion of the first fifty-two hours to the end of the fourth day, when the wound was first dressed.	Continues well.	Slept well.	Хопе.	Two.	Five quently.	Moist.	Clean.		Oct. 18th. ditto	
Temperature.—Kept about the same. Pulse.—Increased in frequency, but kept soft and very compressible. Tongue.—Kept very clean and moist.	Continues well	Sir pe	None.	Two.	Fre- quently.	Moist.	Clean.	<u>:</u>	Oct. 19th, ditto.	
General Surface,—Moist and Warm. Urine,—Continued very free by natural efforts, nearly five pounds in the last forty-five homs.	Continues well.	Slept well.	None.	Two.	Fre-	Moist.	Clean.	76	Oct. 20th, ditto.	
Motions.—2 immediately after the clysters. Thirst and Flatus.—Entirely absent.	Considered as cured, calling only occasionally subsequently.	Slept well.	N me.	One.	Fre-	Modest	Char	7.	Oct. 21st, ditto.	

Thirst and Flatus. -- Entirely absent. Steep -The time passed in sleep was con-

siderable; thirteen hours out of the last fortyfive hours-or thirty hours out of the ninety. seven, from the commencement.

The last table shows the progress from the conclusion of the fourth day to the termination of the case. The item of temperature is now omitted, as unnecessary.

ADDITIONAL GENERAL OBSERVATIONS.

THE success of this second case cannot but be admitted as more remarkable and conclusive than the first. The advanced age of my patient, the numerous adhesions, the extensive ascitic deposit, and worn down constitution, offered but slight prospects of recovery; still the depression of her mind and the inconvenience of a burthen, accompanied with great pain, coupled with the positive assurances, that her case was perfectly hopeless, rendered even the smallest chance of life by operation very desirable. Under such circumstances, then, the proceeding was justifiable, and her perfect and rapid recovery only tends to confirm the views I have before expressed in respect to this operation. In my mind I feel convinced that in very many instances of apparently incurable ascites, ovarian disease has previously existed, which in fact is the exciting cause of the ascitic deposit. This second case, also proves the value of the simplest mode of treatment. One dose of mur, morphine imme-

of inspissated gall, and two clysters, being the whole amount of medical assistance, except the most rigid attention to diet prescribed, an equable temperature, and perfect quietness. Mr. Lizars attributes his success in the after treatment to timely bleeding, and certainly, I believe, there is little good to be done without it, the pulse must, however first indicate the necessity for it; in this case no blood was taken, the pulse never being otherwise than soft, and easily compressible; perhaps her advanced age might account for the want of energy in the circulatory powers; another proof of this was the remarkable fact already alluded to, that the pulse did not vary one stroke after the operation from what it was before. The tumonr was freely injected with blood vessels; yet no vessels, either in the pedicle, or in any of its adhesions, required the ligature; and the blood lost during the operation was very trifling, certainly not two ounces. Throughout the case there was an extensive secretion of urine, which at all times passed without the assistance of the eatheter. I did not interfere with her habit of smoking as she had been long accustomed to it, and seemed to derive a little pleasure from the indulgence. In both these cases the ligatures connected with the pedicles. were brought out at the very lowest point of | tation, than when the knife is made use of, and the external incisions, those of Mr. Lizars diately after the operation, two aperient doses were (it appears from his plates) brought out | I feel little doubt in attributing many deaths,

about midway between the umbiliens and pubes; this is a matter of mere choice; for my own part, I fincied the ligature would interfere less with visceral movements by being brought out lower than otherwise, which was my reason for adopting it. It is impossible to reflect upon the nature of these cases without admitting how very improper it would have been to put in practice the recommendation of Mr. Jeaffreson. The adhesions and solid parts of the tumours, would have rendered such a mode impracticable; and the exposure of the viscera, with the effects of a large incision, are not more dangerous than a mere paneture without exposure, now, beyond a doubt, abundantly proved by the cases of Dr. Macdowal, Mr. Lizars, and myself, When the prejudices against the operation shall have subsided, there exists not a doubt but that it must, as a matter of necessity, be admitted as a perfectly legitimate operation, and justifiable in every stage of diseased ovaria. It is to be hoped, too, that these operations will convince surgeons that the great latality attending many capital operations, where the peritoneum is concerned, consists in driving the case to extremes; by adopting various modes of relief (which failing) produce greater peritoneal irrifatal inflammatory action is often the result.

not to the undue interference with the knite, but to the means put in practice before the knife is resorted to, for instance, the manipulations of taxis in hernia. Take the peritoneum in its quiescent state, the knife can then be used with much less pain to the patient, and those operations, so often fatal, and if successful, so critical in their after treatment, will become seldom fatal and extremely simple in their subsequent treatment. I shall now draw my remarks towards a conclusion; perhaps they may be considered too lengthy, the importance however of the cases is such, that the omission of even the slightest particular, might be the means of leading others to wrong conclusions. For those who may not have leisure to attend to it, I have thought proper to add a statistical account of such cases as have been treated by both operations, spoken of in these remarks, and which I hope will speak volumes in favour of the large incision.

Small Incision as practiced by Dohlhoff, Germany, I successful, 2 fital. A successful. Jeattireson, Ipswich, Saxmundham, 2 successful, 4 fatal. King. Tombridge, I successful. West. 1 fatal. Phillips, London

Total, 5 successful, 1 fatal,

Out of the five successful cases, two, viz., one by Doldhoff, and one by King were entmerely, there being no tomour, consequently no violence was done to the viscera; the cales being those of simple called wounds. The large Inci toward Extirpation as practised by

L'Aumonier, France, I successful. Dr. Smith, Connecticut, Fucces ful. Dr. Smith, Dr Macdowal, Kentucky, 3 (1999) sful. Mr. Lazus, Scotland, 3 (1998) sful, I fatal. Manchester, 2 successful, Dr. Clay,

100 uccessful I fatal

One of these successful cases was cut down upon, but no tumour was found, by Mr. Lizars, At the same time it ought to be stated that the fatal ease (also by Mr. Lizars) had previously suffered from an attack of cholers, which, with could probability with the operation, might be considered as the cause of death,

I have now faithfully detailed my own cases. and, as far as I could obtain them, the practice and opinions of others. Here endeavoured to show, without prejudice to either, the comparative value of both operations. The puncturing of averian sacs I have not entered into, simply, because it is not a enrative agenty, but merely a means of temporary relief to be followed by still greater suffering; with the certain prospect of a fatal termination. Even simple puncturing has been fatal in more instances than one. I am averse to puncturing, because it offers no hope of ultimate cure, and because at the places punctured, adhesions are effected, and by the alternate distention, and collapse of the sac, fresh adhesions are also formed in other part.

The immber of adhesions, however, can be overcome by the large incision with great case; and experience tells up the patient may accover from the separation of them, however numerous; and that without a bad symptom even in an aged person. But such adhesions, or even a suspicion that they may exist (and I venture to is to wan can tell where they are not to be and with before operation) must at once condean the small incision operation. Time, and a lear orses opportunities will settle this questhen I am could lent, in favour of the large inesiete to have room to be enabled to see that no namecessary mischief is done, is the true principle of the large operation. Lastly, the hein; enabled to we the tate, not only of the parts contemplated to be extirpated but the

subsequent to operations on the peritoneal sac, | connecting viscera, and that, in time to retrace our | steps if necessary, with having only the simple incision to heal again, is a circumstance that cannot attend the minor operation.

1 for be continued

LECTURES ON CHEMISTRY.

By JOHN SCOTTIEN M.D., Lectures on Clausediv. at the Abber of School of Medicine

Having glanced casually in our last lecture at the principal theories of the voltaic battery, and having drawn your attention to some of its various forms. I left off, with a promise to investigate, when we should meet again, some of the chemical effects of volttic electricity.

Before I do so, however, I must again caution you against being misled by the terms positive and negative, as applied to voltaic arrangements. It would seem (45 I have before observed) that in a simple and compound voltaic arrangement, each being composed of zine and copper, and acted upon by an acid, that in the simple arrangement the copper would be positive, and in a compound arrangement the zine; because in the usual forms of such apparatus, each of these metals in turn is made to emit the current. But this is a mere casualty, dependent upon a convenient mechanical arrangement of the elements of the battery. Other arrangements might be employed which would make either element of the battery, at pleasure, either positive or negative, to use the e terms in their common acceptation, a fact which proves, 1 think, that they should not be used. Surely the terms emitting and receiving would be more convenient, when peaking of voltaic arrangements, than positive and negative.

Having made these remarks, which seemed to me likely to prevent much future misunderstanding, we will proceed to examine the chemical effects of voltaic electricity. In the year 1800, it was dis-covered by Messrs, Nicholson and Carlisle, that when two wires, one proceeding from each terminal part of a compound voltric series, were brought near together under water, the fluid was rapidly decomposed, and little hubbles of exygen and hydrogen, its constituents, escaped; these by a very simple contrivance may be collected separately. Now it was observed that the gases in question were not eliminated from either wire indiscriminately, but that hydrogen escaped from the wire which received the electric current, or the negative

wire, and oxygen from the other. This was the first instance noticed of a body being decomposed by voltaic electricity; but other discoveries of a similar kind soon followed. It was found that certain saline bodies under similar eircum times were also decomposed, the acid invariably proceeding to the cuatting or positive wire, and the less to the other. But the most brilliant discovery made by this agent, thus applied, was that of the compound nature of the alkalies and earths. Potash, for instance, one of the fixed alkalice, had been assumed hitherto to be a simple or undecomposable body, but Sir H. Davy separated it by the agency of voltaic electricity into a metal, called by him potas imm, and the sub-tance oxygen; of these, soxygen was liberated, as in the case of the decomposition of water, at the emitting or positive end of the battery, and potassium at the other. Precisely analogous were the results when to two other fixed alkalics, soda and tithia, were exposed to the same agency. All these were found to be metallic oxides. Encouraged by these results, Sir 46. Davy proceeded to experimentalize on the earths, such as lime, magnesia, alumina, and others, to which they are more or less allied; these two, Davy proved to be metallic oxides, of which the oxygen was always eliminated at the recicing or positive wire, and their respective metallic radicals at the other. You may have remarked that hitherto, during these descriptions of voltaic decompositions. I have avoided using the terms end or pole, terms frequently employed in treatises on voltaie electricity, but which all, more or les, involve notions that are incorrect, and therefore improper. Every voltaic arrangement must afford some provision for a circulation of the electricity

circuit, and if this circuit be effectually broken, its very constitution as a battery is annihilated. If any part of the circumference of a ring were cut across, so that it no longer formed a complete circle, you certainly would not apply the terms beginning and end to the cut parts-the very words beginning and end of a ring convey an absurdity. I wish you then to be incapable of thinking of the beginning or end of a voltaic arrangement, however much the mechanical form of such an arrangement might seem to countenance the terms. I wish you moreover to remember, that although we speak of certain substances being acted upon, or decomposed, by a voltaic battery, yet those substances, in point of fact, are a part of the battery, that they are not merely acted upon or passive, but exert their own agencies in return, and correspond with, and are proportionate to, other actions taking place simultaneously in other parts of the arrangement. I am particular in mentioning these things to you thus early, because we are going presently to examine the theory of electro-chemical decomposition, as originating with Davy. Then Davy and his associates, think you, took care, for some reason not yet known to us, never to use the terms end or pele, as applied to voltaic arrangements, and moreover regarded the material acted upon in these experiments as forming a part of the voltaic series? Not at all. Davy and his associates did precisely the reverse of all this; so now I trust you will be prepared to follow me in detailing some of his experiments, and the results to which they led.

We have seen that oxygen and acids proceed, when substances containing them are decomposed by voltaic electricity, to the emitting or positive wire, and hydrogen, and bases, and metals, to the receiving, or negative wire. This result was inreceiving, or negative wire. variable in every experiment hitherto noticed; and the more extended investigations of Davy led him to suppose that such was universal. Now why do exygen and the acids always go to one wire more than the other?--why hydrogen, bases, and metals?-what force has voltaic electricity overcome? —why has it determined them to different sides?

Only one of these questions admits of an answer,

apart from speculation. The force overcome by electricity, in either of these instances, is the force of chemical attraction, or affinity, the nature of which is not known, as I mentioned when speaking of affinity: but perhaps the very experiments under consideration will inveil the mystery. thought Davy. Before I point out to you the leading points of those doctrines which Davy ultimately esponsed, from a consideration of these results, let me call your attention to one of the most universal and best marked properties of electricity, as developed by the machine, attraction and repulsion. You are aware that any light body (say a pith ball) when electrified positively, will attract towards itself any other pith ball electrified negatively, and brought sufficiently near to it. This is universal, and it is a result just as universal, that when the pith balls have tonehed each other, they separate again. The former of these two phenomena Davy laid in his mind when he speculated on the causes of voltaic decomposition, the latter by some unaccountable chance he happened to forget altogether; but let us now examine his celebrated electro-chemical theory. Davy incrgined that the cause of chemical union was the agency of opposite electrical energies. He imagibed, for instance, that the atoms of hydrogen were universally positive, and those of oxygen universally negative, hence, under propitions circonstances, they would approach each other, and unite, as in the case of the oppositely electrified pith balls; so far the analogy is good; but why they rerational united, Davy's theory cannot afford any satisfactory reason; he assumed, however, this to be occasioned by a species of aggregation. Be this as it may, he attributed chemical union to the particles of different bodies being in opposite electrical states, and it follows, as a deduction from such a theory, that the elements of such a compound must necessarily be separated, if exposed to stronger electrical agencies than their own. Suppose, for example, that oxygen and hydrogen are united together in the Ihid water, with a force some provision for a circulation of the electricity capal to the sum of 2 and 2, or 4, being the amount of generated by it. in other words its action is in a their own electrical energies. These two elements should, theoretically, be capable of separation by a force equal to the sum of 3 and 3, which we will assume to be that of the wires,—ends or poles—so bray termed them, of a voltaic arrangement. You will not fail to remember, then, that the assumption of chemical attraction being the result of opposite electrical states of the combining molecules, was the most prominent part of Davy's electrochemical theory; from which it followed, as a matter of course, that all chemical compounds should be capable of decomposition into their consultances, provided we could act on them by a sufficient amount of opposite electrical forces.

Necessarily connected too with this theory, is the hypothesis of the terminal wires, being attractive agents, each soliciting those molecules of a compound which were in an opposite electrical state to its own; on which supposition, the terms poles, as applied to such wires, were not improper. Now however fascinating a theory may be, however well it is capable of embracing one class of facts, however great the name of its originator, we must not scruple to see how it stands the test of collateral scrutiny. Let us then try the celebrated electro-chemical theory of Davy by this tribunal, First, then, can its leading assumption, that all bodies which unite chemically are in opposite electrical states, be verified? Selecting the elements of water as our example, can it be proved that oxygen is endowed with innate negative, and hydrogen with innate positive qualities. As our most delicate instruments fail to recognise this, then why assume it?-you may ask. Because without this assumption, (Davy would have said) no rational explanation of voltaic decomposition can be given. But this is not rational, as we shall find. I have already pointed out the fact that the parallelism between the cases of the oppositely electrified pith balls, and the presumed oppositely electrified molecules, is not maintained. Davy imagined that another force came into operation; then it should be equally as active in the opposite case,-as of the disunion of molecules. But here we find Davy's theory of the agency of voltaic electricity just as much at fault. The positive wire attracts the negative oxygen, the negative wire the positive hydrogen; he assumed then each of these substances as liberated, whereas in order to be consistent with the other part of the theory, each ought to unite with the metal which attracted it, forming other chemical compounds, because the other force assumed by Davy as succeeding electrical attraction in the former case, should be equally applicable to this.

Then what is the result of all these discoveries of the weak points of Davy's theory?-you will ask me. Why that it is incorrect in its details, Ar not the particles of all bodies which unite chemically in opposite electrical states? It seems not. At all events we cannot prove it. Do you diseard this theory without offering another?-do you deny the agency of electricity altogether in promoting chemical union? What a pity to annihilate a theory so brilliant—so apparently in accordance with many facts. Is it not possible we judge it too hastily, and have not yet thoroughly comprehended it? These, gentlemen, are, I know, amongst your thoughts. Let me answer these questions as well as I can. The authority of no name, however great, will warrant us in maintaining a theory whose tenets are proved to be incorrect; we have no better theory to offer, which proves our sincerity in rejecting this. We do not deny the agency of electricity in promoting chemical union, or rice versa; indeed, we can prove that chemical and electrical actions are always concomitant, and proporti nate; probably they may stand in the light of cause and effect, but this we cannot prove. In short, if we can summon hismility enough to own it, we must say that chemical and electrical agencies are mysteriously associated, but how-ice cannot tell! In my next lecture I shall point out to you certain other facts, relative to voltaic-chemical decomposition, altogether irreconcilable with Davy's theory, which, for the most part, were discovered by Dr. Faraday, and the importance of which have added another laurel to his brow. This philosophic candour compels us to see the very simple and beautiful creation of Davy dismembered and destroyed. A being of much

Pyeliness, though frail, from which the enchanter's promethean fire darted forth to blind men's judgments, or warp them to it; will. But the enchanter is now dead, and his creature no longer able to maintain its sway, has fallen.

LECTURES ON THE ANATOMY AND PHYSIOLOGY OF THE NERVOUS SYSTEM.

By Professor OWLN, LR. , Se

We now finally come to consider the characters and progressive advances of the brain, in the manniferous class of animals, where it reaches its highest development in man. In no other class of animals is the series of steps by which the organ mounts, as it were, to perfection, so extensive,—in none is the contrast between the highest and the lowest condition of it so great.

In the preceding classes of oviparous vertebrated animals, the marked and most tangible inferiority of the brain has been rather the transverse connecting apparatus than in the relative proportion of the cerebral hemispheres to the eatire body. We have been able to trace, in birds, filamentary anterior and posterior commissures, and likewise a soft commissure:—we have seen in them a fornix, but of the corpus callosum, or great commissure, as it is termed, there has been no trace.

The mammalia, in which we might expect to find the lowest condition of the cerebral organs, are those that most resemble the ovipara in their mode of generation, and in the limitation of their intelligence. In the carnivorous marsupial animal, the Dasyure, you observe the brain to consist of the same exterior masses as in the crocodile; and these masses succeeding each other singly, or by pairs, in the same linear series. spinal chord, expanding into the medulla oblongata, there supports a small cerebellum transversely folded, as in birds, but with radimental lateral parts, or hemispheres. Anterior to the cerebellum, are the optic lobes, or nates, and in front of these lie the cerebral hemispheres, equally smooth and devoid of convolutions. The ventricles of these hemisof convolutions. The ventricles of these bemis-pheres present, however, large and conspicuous hippocampal prominences, anterior to which are the small corpora striata. The medullary fibres of the fords are, like the hippocampal, more developed than in birds, and form a transverse commissure, uniting the hippocampi, as well as a longitudinal commissure connecting the same parts with the anterior lobes. There is a large, round, anterior commissure, many or the masses pro-connect together the objectory lobes—those proanterior commissure, many of the fibres of which minent masses anterior to the hemispheres. supra-ventricular masses of the cerebrum have no transverse commissure, no corpus callosum. This low condition of the brain characterises all the marsanial and monotrematous mammalia: i.e., all ovoviviparous or implacental mammalia.

But there are grades of development in this section of the class. Thus, the wonibat and the kangaroo have a few simple foldings of the cerebral substance. The hemispheres of the cerebellum are likewise, in these, more developed, and also possess pedunculate appendages. That broad band hehind the optic lobes, in birds, has become narrower transversely, thicker in the vertical direction, with a slight superior convexity, and a median longitudinal division, forming the second pair of bigenninal bodies, or the testes. But this state of development can searcely be recognized in the Ornithoricus, which differs little from birds in this respect. The testes are first clearly developed in the Marsupialia.

At first sight, the brain of the rat, the rabbit, or the squirrel, would seem to be inferior in organization to that of the Echidna, or kangaroo; but if you slice off a thin layer of the cerebral hemispheres, you will expose a broad and well-developed corpus callosum, beneath which is the hippocampal commissare, together with the anterior, posterior, and soft commissures. All the parts of the connecting apparatus of the brain are now established, and henceforth only differ in relative size.

The cerebral hemispheres progressively increase as we pass from the orders rodentia, chiroptera, and edentata, to the carnivora, the ruminauts, the pacaderms, the quadrumena, and the cetacca, to nan. The extent of the superficial vascular cine-

ritious matter of the hemispheres is increased in the same gradation, chiefly by the progressive number, depth, and complications of the folds and convolutions.

A symmetrical arrangement, more or less regular or complex, can always be traced between the foldings of the two hemispheres, and the more regular in proper portion to the simplicity of the convolutions; the foldings of the cerebral substance follow likewise, both in the embryonic development of a complex brain, and in the progressive permanent staces presented by the mammalian series—a regular determinate law; some convolutions being more constant than others, and these being traceable through the greatest number of brains, and recognizable even in the human brain, where at first sight they are obscured by so many accessory convolutions.

[The lecturer then demonstrated, in a considerable number of prepared brains of different animals, and in a large series of diagrams, in which the corresponding convolutions in the brains of different animals were marked by the same colours, the facts establishing this important generalization.]

With respect to the optic lobes, these appear to undergo an arrest of development in the manmalian class; or, in other and truer words, they maintain their ordinary relations of size with the optic nerves and visual organs. In the ruminants, which have large staring eyes, the optic lobes, or nates, are larger than the testes, especially in the giraffe. The testes, which seem to be developed in relation with the presence and large size of the lateral parts of the cerebellum, do not present the same variation of size as the optic lobes, and, consequently, have a larger proportionate size in the carnivora, than in the ruminants. In all manmalia, the optic lobes are solid.

The cerebellum increases in importance chiefly by the preponderence of the lateral masses, which conceal the median and vermiform processes in the cetaccous, quadrumenous, and human brains. The pous varolii, like the posterior bigeminal bodies, coxists with the lateral hemispheres of the cerebellum, and presents the same ratio of development. It is, consequently, another peculiarity of the manusalian brain. The fourth ventricle is no longer continued into the cerebellum. The third ventricle continues to be connected, by an infundibular process, with the pituitary gland; but the pineal gland, which is solid and much shrunk in size, is now attached by two pedicular processes to the thalami. The lateral ventricles are continued forwards, in most of the lower mammalia, into the substance of the offactory bulbs.

As the cerebrum increase in height, the corpus callosum becomes progressively separated from that part of the fornix constituting the hippocampal commissure, with which, however, it is connected by a thin median—vertical curtain, called the septim heidium. This consists of two parallel walls, including a cavity called the fifth ventricle, which only exists in the higher mammalian orders.

The cerebral hemispheres progressively augment in length, cover first the optic lobes, then the cerebellum, and in man project beyond the cerebellum. Some birds have heavier brains in proportion to their light hodies than man. Some mammalia, as the whale and elephant, have absolutely larger brains than man, but no animal has so large a cerebrum in proportion to the spinal chord and nerves.

The lecturer then adverted in feeling terms to the severe and irreparable loss which science had recently sustained in the great physiologist Charles Bell, to whom the world was indebted for the deepest insight into, arising out of the most brilliant discoveries of, the nervous system, and concluded by expressing his thanks for the kind and patient attention with which his illustrations of that part of the Hunterian museum relating to the nervous system, had been received.

ROYAL COLLEGE OF SURGEONS, LONDON.

List of gentlemen admitted members on Friday, Nov. 4th, 1842.

H. Challinor, B. K. Johnson, J. Thompson, C. E. Prothero, W. Higgins, H. Marder, E. Jay, A. Ebsworth, R. B. Walcott, W. H. Hay, R. Jones.

SECALE CORNUTUM.

To CHARLES CLAY, Esqu. M. D.

Sir, Until the 1st of this month Had not seen a number of the Medical Times, -consequently, have not, as yet, seen your remarks on the secale communing the number for Sept. 3d; but, from the letter addressed to you by Mr. J. Ridout, I was almost induced to make a few observation. prior to your answer to the enquiry contained in your extract of the letter, and which has appeared in the number of last week. For my own part I have great confidence in the ergot, and have tried it in tineture, powder, and decocion, and of the three most decidedly prefer the latter. It is now rather more than fourteen years linee I first commenced using it, and, like many others who had preceded me, I fell into the error of administering it at periods when the nterns was not in a fit state for its exhibition; by which means I several times had the mortification of finding that a labour which might have gone on well (had I kept the ergot in my pocket and allowed Dame Nature to have her own will) was converted into one of a tedious and protracted kind, and I had the penance of additional hours of anxiety and watching, beides putting my patient to a great deal of nunccessery pain. I believe some practitioners are too apt to exhibit the remedy adely with a view to get away from their patients as quickly as possible. and frequently, by an untimely administration of it, frustrate their intention, and, in addition to a protracted labour, meet with an hour glass contraction and retained placenta. Years of experience have, I hope, given me wisdom in that respect, and I now place the greatest reliance on its virtues, and when recently prepared and judicionsly given, it seldom fails to gratify the practitioner by the fulfilment of his wishes. The plan which I have for some years adopted has been, to have some fresh and finely powdered orgot put in a closely stoppered botth containing three doses of the medicine, and, as the bortle is graduated, I have no difficulty in taking out the proper dose (2 scruples) which I boil for about the time you name (five minutes,) and exhibit not only the decoction but the pareder also, by which means I think its virtues are more fully obtained, and, as the powder is so very fine, it is swallowed without annoyance to the patients. I generally prepare but one dose at a time, in order that the whole may be taken, and where I have expected it probable that a second might be required, I have prepared it hortly after civing the first; I therefore agree with you, that there can be but very little time bod, if any, in preparing the desoction, and, however urgent the eare, such preparation appears most suitable for exhibition. In general, practitioners in the country are judifferent as to the manner in which they Leep the ergot; some allowing it to remain in paper and in a function exposed to damp, by which means it is deprived of its activity, and when it me is required too often leads the mewhen a case is required not onen nears the ine-dical man to underrate its virtue as a remedial poent in deterricy. Your mode of keeping the doce in pieces of heat lead offer a limit to many practitioner, who no doubt will take alwantage of it, particularly the e who have been in the habit of carryine it don't in the will teast pocket in he other covering them that of paper

Lam, Sir, Your shedient servint. HENRY CREEK WOOD

4 . Manne 5 de

CAPTION TO MEDICAL MEN

The Lideor of the "Market of the co-

Tir A few days agon very fine man, wheat h same (are the nearly) called upon me, and after introducing him eff as an invalid from India, who tend just recurred and in fact dreambacked only a day or a presion by hegged 4 would undertake his cure. I have close by, "say he, with a win his care, "I live close by," say he, with a win-ning, dome neited out of familiarity " over there;" by he pointing with a ready thumb, to mewhere toward the North Pole. I wish I I new exactly where. A policearum I should tell table, and keepine up morbid condition of their you, called a day or two before, to warm all her and the tyngenral crystic, as from at position. Maps by a loyal method and chemical subject of a soften more pulpable to the rough them the eye.

gentleman going round with a prained thumb to get advice, who, when the doctor's back was turned, contrived to use the fingers at any rate, and quietly pocketed any thing worth his while. Did you ever know the like? We so abound in silver and gold, and precious stones; there is such a plenty amongst us!

However, I eyed him narrowly in consequence, and observed, that his countenance was exceedingly fair to look upon, bless him? but I said nothing. I fetched him a chair, and planting it secundem artem right opposite the perincum, prevailed on him to be seated where he was without going into my surgery. To make a long story short, sir, I mailed him there till be took his departure; I engaged to prepare the necessary medicine for his complaint, an alleged tightness—where do you suppose, sir? Not in his head, nor yet in his belly; but, in his chest, but he never returned, though he promised faithfully to come for the physic as soon as he came back from the Docks, where his huggage and money, indeed, all his earthly treasures, were. The design of this, is, in case you think with me this youth was, and i., and wished to be a rogue, that you might warn all our society to keep the overflowing wealth, with which we are so greviously afflicted out of the way of all Calcilonians: --- guangnam danci terentiss.

He is a very fine man, taller than myself, and that's, speaking very highly of him, has a very sweet countenance, sandy hair, and wears mus-

I have the honor to be, sir, &c.

P.S.—Praysir, can you tell me which do, Parr's Fills or Cockle's (or if any of the rest of them be better) bring on mi-carriage the sooner: the nurery, and other unids all about here use them so much that they smell to me exceedingly suspicious. London, Oct. 20, 1842.

CURE OF DEAFNESS, PRODUCED BY ENLARGEMENTS OF THE TONSILS.

B: WHITIAM THORNTON, Army Sorgeon, M.B.C. +1 (For the * Medical Time: ?)

Anc. 5th, 1842.-Mi . P., a young lady, 11 year- old, residing in London, comulted me on account of deafness. Very delicate state of health, and her general appearance such as to indicate a taint of scrofnlous deitheses :- has been deaf about four years, in consequence of measles. Upon examination of the meatus externus of the right ear a purulent discharge, very offensive and the cental thickened, the meanth dry and some herdened wax, which was removed by syringing into The membrana tynipani of both ears healthy second only hear my watch at two inches from each car. On examining the fance , found the ton if yery much enlarged and extending so far toward, each other as to be within a line of their touching.

They felt hard to the touch, it appeared that the suffered about four years before from measles and influmnatory ore threat, upon recovering, the became eradually more and more deal, in which state he has continued ever since. I prescribed friction with unot, hydrang, iodidum, upon the external fances, and a solution of zine applied to the wall of the me itue and argent, nitrat, applied to the ton ile. Decoet, Sarsae, concentrated with pote to in holom, internally; aperient powders t den twice a week. By per evering, under the treatment, with iodidina potassie, and the new of hunar can tie the tousil recovered their ordimary ite, for hearing function daily improved, and is now to acute and perfect, that the can disthrough my watch at three and . I merely look torward to a certain change in the economic of the female constitution, which, when it occur, I have not the least doubt, will being with it a perfect cure of the ton illusy tumour, and that the hear ine will continue in it perfect tate.

The ton illary enbareaments inducing deafness, by interfering with the integrity of the En meluan tube, and keeping up morbid condition of their

For this reason the surgeon should always examine the tumours with his tinger, &c.

P.S.—Cured in the course of a month.

31, Baker street, Portmin Square, 7th November, 1842.

CURABILITY OF CONSUMPTION.

To the Uditor of the ' Medical Times.

Str.-Having perused, in your excellent publieation, several interesting cases of con umption. cured, contrary to the opinions entertained by the late Dr. T. Davies, who prescribed for them, permit me to add to the number two others, no less interesting than those which you have already given.

The mode by which recovery was effected in the first of the instance. I am about to adduce, you will agree with me, was extraordinary-and even imprecedented; for it was occasioned by the suicidal attempt of the patient to deprive himself of life by cutting his own throat. The second is a case where a deposit of tubercles, situated over the third and fourth ribs of the left side, was liquefied; and, the breast becoming simultaneously inflamedby sympathy, the matter, from both sources, formed for itself a passage into the cavity, which the above named physician, and Dr. Ramadge had ascertained to exist on the summit of the left lung.

Proceeding with the first case:

William Bell, aged 52, coach-maker, entered the Infirmary for Diseases of the Chest, as an inpatient, on the 11th November, 1837, labouring under symptoms of catarrhal asthma, which had existed for some years, but which, until a short period before his admission, did not prevent him from following his daily avocations. He mentioned that in 4827, he had had the advice of Dr. T. Davies, whilst labouring under a severe cough, perspirations, homoptysis, &c., and, after an examination of the chest, he was pronounced consumptive. A short time previous to receiving this intimation, he had been induced to risk his entire savings upon a prize fight, he having himself been a pugilist, and searcely had it been announced that a vital organ was attacked by a formidable disease before his fortune also received a shock by the defeat of the party on whom he had betted, and the consequent total loss of all his property. The event was, he committed the act of desperation before mentioned. This attempt to destroy life became the means of prolonging it for ten years, for, by a series of phenomena, the consumptive symptoms were thereby dissipated.

Soon after this he recovered by surgical aid, and it became his practice to conceal the mark of his wound with a piece of flaund. When Dr. Ramadge, in spite of the patient's ingenuity, discovered the clearity, and thus became acquainted with the fact of his baying attempted snielde, he found, on examination, that, in breathing, when the patient inspired, a slight protrusion took place where the wound had been-which was between the first ring of the traches and the cricoid cartilage; and, that In the act of expiration a small portion of the anterior part of the circle of the former, passed within that of the latter. The impeded expiration, the result of the obstacle just mentioned, caused, in process of time, the lower lobes of the lungs to be exceedingly enlarged, which was indicated by auscultation, as well as by an ocular in pection of the chest. heath and above the clavicles there were, however, the marked depressions, such as we find in phthisical persons. The action of the heart having been interfered with by the employ-emutons state of the lower lobes, and displaced by the highly voluminous condition of the inferior lobe of the left lung, he became drep-leal, and entered the Informary as an in patient. After various remedial attempts to relieve the garged state of the venous system, and the visceral disorders, its never-failing consequences - augravated not a little by former habits of intemperance, the succumbed to internal effusion.

Dr. Ramadge in the early part of the treatment tried to render the expiratory power more effeche to succesfully tive by the mechanical process employ, in establishing the whole one relation between in-piration and expiration, or, in other words, in bringing about the natural proportion that should exist between the windpipe and the lungs. But, in this case, there was a physical impediment, which no skill nor contrivance could overcome, for the first ring of the traches was constantly standing in the way of the expired air.

Dissection of the body a few hours after death. showed the upper lobe, of the lungs to be contracted, indurated, and studded with innumerable tubereles of various sizes, generally small, and semi-tran parcut when divested of the black pulmentry matter surrounding them. Cicatrizations of different forms were therein observable, and the investing membrane of the tuberculated summits was thickened, partly cartilagenous, and adherent throughout to the opposite serous surface. other lobes of the hings were hypertrophied and emphysematous in the highest degree. The alte ration noticed in the contour of the chest is easily accounted for by the condition of the inexpansible summits of both lung, and the greatly enlarged state of the vesicular structure everywhere else,

This is an instructive case, as it illustrates the correctness of the view that whatever serves to expand the lungs, removes the tendency to form inhereles, and alters entirely the scrofulous diathesis. Had the patient lived, the greater portion of the tubercles found on dissection would have disappeared by absorption. After the manifestation catarrhal astlona, all the phthisical symptoms

had disappeared.

To come to the second case: -Mrs. Levi, residing in Bevis Marks, and the mother of a large family of young children, was, in the early part of the summer of 1838, visited by Dr. T. Davies and another physician, at the request of Messrs, Canstat and Dyte, her usual medical attendants. For some mouth: she had been troubled with severe cough, purulent expectoration, heetic fever, and the other external signs of consumntion. Her chest, which had undergone much contraction, was stethoscopically explored by the above-named physician, and pronounced to contain a cavity of no small extent in the superior lobe of the left lung. At this period a flattish substance of irregular form, between two and three inches in its longest extent, and which, from the absence of uneasiness attracted but little attention, appeared superiorly to the upper circumference of the left breast, and adhered firmly to the muscles over the third and fourth ribs. The eventual occurrence of pain hereabouts, and the phthisical symptoms having increased, notwithstanding a change of air had been tried, induced Messrs, Canstal and Dyte to call in Dr. Ramadge. Accompanied by them, he saw her at Greenwich; and, after satisfying himself that, besides the constitutional symptoms of consumption, she had disease in the summit of both lungs, and a well defined excavation, as previously ascertained, he opined the indurated mass on the exterior of the chest to be a tuberculous deposition.

Having prescribed for the most argent symptoms, and advised inhalation, with a view to defeating further contraction of the chest, which, from long experience, he knew would be followed by fresh crops of tubercles in the lungs, as well as the dangerous secondary affections, such as diarrhora, alecration of the larynx, &c. which so frequently follow the descent of the disease into the inferior lobes, he pointed out the posssibility of a solution of the exterior tuberculous mass taking place. At the expiration of more than a month the attendance of Dr.Ramadge was again requested. During his absence the tuberculated mass liquified, and caused a sympathetic inflammation of the entire of the left breast terminating in suppuration. —To relieve the painful distention, and allow the escape of matter, a puncture of the breast was proposed, but the courage of the patient failed, and a postponement to the following day intreated.

The same night, under a sense of great difficulty of breathing, she felt something to pass into her chest. This was instantly followed by uncontrollable cough, and an abundant discharge of fortid expectoration. She continued coughing and expectorating, almost unceasingly, for ten hours, and brought up in this time more than two quarts of pure pus. Regretting the result of her opposition to the lancing of the mannin, she willingly sub-

of the surgeons of Guy's Hospital. As soon as an incision was made near the nipple of the breast, a great quantity of matter, followed by air, rushed through the opening. The air came from the ca-vity in the top of the left lung, into which two quarts at least of puriform matter had spontaneously burst from the outside of the chest,

Two days after the surgical vent had been given, Dr. Ramadge carefully explored the chest, and explained that the air, with some of the matter, emanated from the cavity whose existence had before been announced. It was singular to witue a how, at the will of the patient, the aerial fluid cacaped from the wound with a hissing noise! In a few weeks she ceased to discharge from the mamma any kind of third; the respiratory muriour was con iderable augmented, and the presence of a cavity no longer discernible. She has since had two children, enjoys good health, and, owing to the disease disappearing in the summer season, she is without any entarrhal complaint whatever. Dr. Ramadge has had leave from the family to introduce some foreign and other medical men, in order that they might be satisfied of the completeness of the recovery.

This extraordinary and interesting case recovered in consequence of the free communication between the surface of the body and the eavity of the left ling, which, whilst it allowed the free escape of the air from the cavity, permitted a general enlargement of the pulmonary tissue to take place, and, in this way, obliterated the eavity.

Disciprins.

REMARKS ON THE EXCITATION OF THE ORGANS DURING SLEEPWALKING.

By T. S. Prideney, P.st.

Dubling my first successful experiment in meamerism in October, 1841, my attention was excited by observing that some passes opposite the anterior part of the head, were followed by a fit of laughter, and in my notes made after the sitting, I inserted the two following queries, "Can individual cerebral organs be mesmerised?" "Did the laughter proceed from my mesmerising the head in the region of hope, ideality, and wit, or was it the resultof the laughter I had just been indulging in, from seeing the insensibility of the patient to pricking, &c.

During two or three subsequent sittings, I made several attempts to excite individual organs with but very partial success; on one occasion a fit of crying followed my operating upon adhesiveness, the patient saying she was crying about her friends, but as during the sitting she had in imagination been present with her brother at sea, whom she had not seen for some years, I did not feel at all satisfied that the crying was the result of

my operating on adhesiveness.

Aliont this period circumstances led me to form the conclusion, that the power of reading the thoughts of the operator, is a faculty much more easily developed in the mesmeric patient than is generally supposed, and from this moment, 1 lost all confidence in any result I might produce by acting on the organs, considering it impossible to assure myself that the phenomena manifested, were not the result of a species of acting on the part of the patient, and I laid aside the enquiry as one which though most worthy of investigation, could only be satisfactorily presented, by an operator and patient, both ignorant of phrenology, and having no preconceived ideas as to the phenomena to be manifested.

The publication of the experiments of Mr. Mansfield and Mr. Gardiner, in this country, and Dr. Buchanan in America, induced me again to direct my attention to the subject, and the result is that from the extreme vividness with which some of the faculties are manifested, but more especially from the fact of feeling being capable of being restored to activity, and again paralyzed at pleasure, I have come to the conclusion that the phenomena cannot with probability be referred to acting, and I now feel bound to avow my belief in the power of the mesmeriser to excite in certain cases, special organs in the patient. This being granted, it becomes a question of absorbing inte-

can be made the means of extending the boundaries of his science,-by more accurately defining the limits of the organs at present known, and discovering the localities of new ones.

The circumstance that by placing a finger over the seat of an organ and willing to excite it, the organ becomes active, was certainly calculated to excite the most sanguine expectations, but a further investigation of the conditions under which the phenomena take place, leads I fear to the conclusion, that Nature is more chary of her secrets than to allow them so easily to be wrested from her, and that no such royal path to knowledge lies open to us. Calling to mind the fact that in many cases the mesmetizer possesses the power of patting parties "en rapport" with his patient by the word of command, I was induced to suspect that volition had much more to do with the excitement of the organs, than the application of the fingers to their surfaces, and experiment soon convinced me not only that it was not necessary to touch the seat of an organ to excite it, but that it might be excited without touching the head at all by a simple act of volition.

Without then either denying, or admitting, that faculties may be excited with greater facility by contact with their surfaces, than by an act of volition alone, I think I am warranted in asserting, that the mere fact of their being capable of being excited at all, without any contact, or operation directed towards their seat, is sufficient to invalidate any evidence in support of the localities of

organs drawn from such a source.

Briefly to recapitulate the conclusions at which I

have arrived, they are-

That special organs of the patient are capable of being called into action by the agency of the mesurcrizer. But that as these organs are capable of being excited, not only by touching their seat, but by touching any part of the head, or even by a simple act of volition, without touching the patient at all, no conclusive evidence can be drawn from such experiments as to the locality of the cerebral organs, and that though the operator, by an act of volition, cap, on certain occasions, and in certain patients, excite a discriminate faculty at pleasure, we have no good ground for concluding, that by operating on a part of the head, the function of which is undiscovered, and willing to excite the particular unknown faculty attached to it whatever this might be, such meknown faculty would be called into action, and its discovery effected.

CALCULT ESCAPING THROUGH THE PARIETES OF THE ABDOMEN.

To the Editor of the ' Medical Time ..

Sib,-The following particulars of a case of biliary calculi escaping through the parietes of the abdomen are, I think, deserving a place in your

valuable periodical.

Mrs. J., a widow about 50 years of age-the mother of several children, after enjoying excellent health for a number of years, while assisting at a large dinner given at her hotel on the 1st March, 1841, without any premonitary indication whatever, was suddenlyattackedwith a violent pain in the right hypochondrium, extending to the clavicle and top of the right shoulder, with other symptoms of hepatic derangement. Thinking these arose from flatulency, she took a little spirits and warm water and went to bed. The pain, however, continuing, she sought medical assistance, and notwithstanding the application of blisters and leeches, and the exhibition of the perious remedies adopted in affections of the liver, she got no better. 'At length an evident fluctuation was discovered just below the last floating rib immediately over the original scat of pain, and ultimately, an abseess formed and burst externally, discharging a quantity of impure pus. On the 1st September following, a small calculus appeared in the orifice, and in a few days afterwards several others emerged, so that up to the present period above 150 have escaped, which I enclose for your inspection. The sinus still remains open, and calculi varying from the size of a millet seed to that of a small nut, continue to be discharged. Her general health does not at mitted the next day to having it performed by one rest to the phrenologist, whether this new agent all appear to suffer, though before every fresh escapement of calculi severe, pains are felt over the l region of the liver.

If you get the specimen analyzed, I should well obliged by your publishing an account of its com-ponent parts. They are of precisely similar appearanec.

Lam, Sir, Yours obediently, W. Thomas, Surgeon.

Pembrol e Tr. F. S. Oh W. o. 28th, Ohlot in 1843

THE MALITACTICE OF MIDWIVES.

Lotte Latter of the ' Medical Line ')

Sin,-From the fearless and just manner in which you advocate the dignity and rights of the profession, while certain magneliquent doctor would be cutting us up in tenthousand pieces, like a Chinese mandarin convicted of high treason, I beg to solicit a corner of your valuable paper, in order to, expose, as tally as I may be able, a system of quackery more dangerons to the victims than that of St. John Long, or the very celebrated president of the British College of Health-Mr. Morrison of vegetable notoricty. The evils to which I allude are the malpractices of female acconchours, alia-midwives. The case in point to which I advert happened in Abordenshire about two months are; and the particulars of which have been communicated to me by a professional friend residing in that part of the country.

A married woman was, after the ordinary period of gestation, seized with parturient pains and the common symptoms of labour, which progressed favourably for a period of twelve hours, at the end of which a healthy living child was born,-and so far all was well; no professional assistance being required. A female accouch ur had charge of the case, and this woman, finding at the end of half an hour that the attachments of the placenta had not separated from the interior of the uterus, introduced her hand per vaginam, and forcibly pulled away the whole mass; the consequences of thi violent proceeding was immediate problems ut ri. The rectum did not escape its share of the violence; and the poor woman, in addition to prolapsus uteri, has ever since laboured under prolapsus ani. It is now two months since the period of parturition, and she was found in the above state by my professional informant about

two days ago.

The andacity of the air disant female acconchent is not so much to be wendered at, as the pusillanimity of the profession in not judiciously exposing the errors of ignorance on the one hand, and those of credulity on the other, for the benefit of the public. The north of Scotland, perhaps more than any other part of the island, swarms with female acconcheurs of the above stamp, who go forth upon the public, having their craniums pedantically illuminated by six weeks attendance on midwifery lectures, given in some provincial school to the slow-timed time of three in the week. I am informed also that no professional man in any small country town in Aberdeenshire dare fall out with these female charlatans, without risk of suffering in reputation and professional emoluments; this is petticoat government with a vengeance! and proves, without doubt, that there are many old women in the profession who wear breeches. Sir, when shall we obtain those salutary reforms of the profession for which the more manly portion of it has been struggling, and the more prejudiced part opposing, for these last ten years; if we be afraid of exposing, for the sake of the bread and butter which so many of no unworthily consume, the ignerance, the audacity, and contemptuous presumption of a set of females practising without licence or professional skill. So long as the different schools of this realm are endowed with different privileges, and the members of one are favoured in comparison with those of the other, and so long as a jealousy exists amongst us as individual practitioners so long will it be easy for quartery to prolong her dynasty, and reap the

body is struggling to support its ancient, and $\exp^{\Pi} \left[\text{ oozing from the ent. surface in debilitated constr$ to a quire additional privileges; looking after the benefits of a part, whilst it should endeavour to secure the interests of the whole. We would do well to imitate the states of ancient Greece, when a foreign enemy threatened invasion of their sacred ferritory, to forget, for a time at least, all private animosities and turn out to a man, in order continually to apply to the legislature, until we shall have procured a bill that shall eradicate at once and for ever, the whole system of quackery, whether it be male or female, from the soil,

I am sorry to be under the necessity of animalverting so severely upon any portion of the sex; but when one part of them becomes the victims of another, it behaves every one who is cognisant of the fact, to interfere and espouse the inquiry,-in order that the public at large may see their true interests in employing properly qualified persons.

in any medical capacity whatever.

Lam, Sir, Your humble and obedt, servt., WILLIAM SMITH, Surg.

BACHILOR OF MEDICINE --- SECOND EXAMINATION, 1842, Nov. 7, 8, & 9,

GENERAL PATHOLOGY, GENERAL THERAPLU-TICS AND HYGIENE.— Γ (aminers, Dr. Billing and Dr. Tweedie.-1. Describe the local phenomena of inflammation, or the changes which take place in an inflamed part. Give an outline of the essential nature of inflammation.—2. State the indications to be kept in view in the treatment of dropsy,... 3. Describe the specific effects of the emanations arising from stagnant water on the human body; and mention the measures best calculated to counteract their pernicious influence, 1. Translate the following passage into English .-At vomitus, ut in secunda quoque valetudine sapinecessarius biliosis est, sie etiam in his morbis, quos bilis concitavit. Ergo omnibus, qui aute febres horrore, et tremore vexantur; omnibus, qui cholera laborant; omnibus ctiam, cum quadam hilaritate insanientibus; et comitiali quoque morbo oppressis, necessarius est. Sed și acutus morbus est, sieut in cholerá; i febris est, ut inter horrores, asperioribus medicamentis opus non est; sicut in dejectionibus quoque supra dictum est: satisque est, ca vomitus causa sumi, quae sanis quoque sumenda esse proposni. At ubi longi valentesque morbi febre sunt, ut comitialis, ut insania, veratro quoque albo ntendum est. Id neque hieme neque asstate recte datur; optime, vere; folerabiliter, autumno, Quisquis daturus crit, id agere ante debet, ut accepturi corpus humidius sit. Illud scire oportet, omne ejusmodi medicamentum, quod potni datur, non semper ægris prodesse, semper sanis nocere.—Celsus, lib. ii. cap. xiii.

SURGERY,-Enaminers, Mr. Bacot and Sir Stephen Hammich.-1. How would you dress, place in position, and subsequently treat, an extensively incised wound of the Integuments and Muscles, on the anterior middle third of the Thigh? How does such treatment differ from that you would pursue in a lacerated, in a contused, and in a deeppunctured bayonet-wound of the same part? Give our reasons for your management of each respec tively .- 2. What are the symptoms and appearances in an acute inflammation of the Integuments of the lower extremity which would induce you to think that it would either terminate in resolution, in suppuration, in alceration, or in mortification? State the foundation for such opinion, -3. Describe the various dislocations of the Elbow-joint, how they are detected, the appearances of the limb, and the mode of reduction .- 1. In an Amputation of the Leg, supposing you had the choice of the whole space between the knee and ankle-joints whereabouts would you begin your incision? Give your reasons for such preference; then detail the instruments and dressing you are likely to require. describing every step of your operation; the position of yourself and patient whether it be a right or a left limb; the stoppage of the circulation, whether by tourniquet or otherwie; the incisions:

tutions; the dressing of the stump; position in bed; time of renewal of the dressings; the removal of ligatures; and subsequent management of the

Physiclogy,—Evaniner, Professor T. Rymer Jones.—1. Describe the mechanical, chemical, and vital properties of Muscular Fibre.-2. What are the propelling agents employed in effecting the Circulation of the Blood during its passage through the venous system?-3. Describe the circulatory and respiratory organs of a Crustaeean (c. 2 Inhister), and of an Insect; and point out the principal differences between them.-4. Describe the structure of the stomach of a Ruminant Quadruped and the process of Rumination,-5, Describe the minute structure of the Liver of a Mammiferous animal, and the nature of the Biliary Secretion,-6. Describe the structure of the com-

pound eye of an Insect.

FORENSIC MEDICINE. - Examiners, Prof. Damel, Dr. Pereira, and Dr. Rigby.-1. What are the advantages of Marsh's process for the detection of Arsenie's and what are the sources of error to be guarded against?-2. How would you proceed to test for Corrosive Sublimate in the contents of a stomach, in a case of suspected poisoning?-3. What are the symptoms and most appropriate treatment of poisoning by Oxalic Acid? What is the average period of death after the ingestion of large do-es of this poison? Describe the postmortem appearances, and state how you would detect the presence of the poison in the contents of the stomach, after the appropriate antidote had been administered. - 1. What are the symptoms and appropriate treatment of poisoning by Aconitum Napellus?-5. In the unimpregnated and in the pregnant state, what are the proofs of pregnancy having previously existed?—6. What are the appearances which indicate recent delivery, as shown during life and after death?

MIDWILLRY, - Examiner, Dr. Rigby, -1, Enumerate the changes in the female breast which are produced by pregnancy,-2. Enumerate the different varieties of extra-uterine pregnancy; their duration and probable mode of termination .-3. At what period of pregnancy is premature expulsion of the feetus least dangerous, and at what period is it more so? Explain the reason why,-4. Enumerate the injurious effects which may result from hurrying the expulsion of the child .-5. Enumerate the indications for applying the forceps and for turning .- 6. Define the operation of artificial premature labour, and describe the mode of inducing it as recommended by modern authors,-7. What are the injurious effects as regards the mother and child in allowing difficult labour, from contracted pelvis, to go on too long without assistance ?-8. What is the diagnosis between prolapsus and polypus uteri?

Medicine.—Extininers, Dr. Billing and Dr Tweedie.—I. Describe the symptoms, anatomical characters, and treatment of acute hydrocephalus. -2. Enumerate the principal varieties observed in the expectoration in pulmonary diseases, and the diagnostic inferences to be drawn from each .-3. Detail the principles of treatment in infantile convulsions. I. State the characteristic appearances and varieties of Rupia. 5. Explain how Pneumo-thorax may arise. Give its physical signs. How is it to be treated?—6. Describe the symptoms and morbid appearances in dy-entery.

Give an outline of the treatment.

EXTRACTS FROM FOREIGN JOURNALS.

Printlattic () ... test Me I de Paris for the "Medical Lin

FRENCH. Phrenology Learnined, By M. PLETRENS.—Hitherto phrenology has not been honoured by a regular refutation, cumuating from the first authorities. The most celebrated physiologists and anatomists of the present period, have been more inclined to treat this subject with contempt, than to oppose it by whether by tournique to otherwise; the messions the mode of using a retractor; the sawing of the seeing as yet, ignerant of its real interests; and while we are quabbling amongst ourselves, the compared to the mode of using a retractor; the sawing of the bones; the seeing the arteries, whether by tenastic probability amongst ourselves, the compared to the advantage. Each corporate the colored to be used, the restraining bloody. This repugnance towards committing oneself on phrenology is easily conceivable. For the argument. They have either altogether neg-

last quarter of a century this pretended science has assumed all the forms of charlatanism, and hence men of a really scientific character have been unwilling to lose their time in combatting a chimera, or to compromise their name by entering the arena with adversaries such as usually present themselves in this field. When phrenology was advocated by such men as Gall and Spurzheim, it was enabled to obtain some attention, for, to the merit of a kind invention, these anatomists joined learning and talents of a high order. It is even probable that the two chiefs of this doctrine would have assumed a better position in the scientific world, had they not sought so much the favours of the multitude, and regarded more the quantity than the quality of their partisans. But when, after the disappearance of the masters of phrenology, this subject descended into the hands of the vulgar, and was made the theme of a set of ignorant declaimers, its abandonment by men of science became inevitable. An event has, however, occurred of late years in France, which has helped to raise this system from the low position into which it had sunk, and to give to it a certain degree of its former celebrity; I mean the conversion of Broussais to phrenology. Broussais had formerly been somewhat roughly handled by Gall, on occasion of his " Traite de la Physiologie Appliquee d la Pathalogie," in which he professed a psychological theory analogous to that of Cabanis, and expressed himself with great disdain upon the ideas of the German doctor. Broussais for some years remained faithful to these doctrines, and opposed to the views of Gall. In his work "Del Irritation et de lu Folie," published in 1820, phrenology is directly attacked, and formally refuted, by proofs drawn from psychology, anatomy, and pathology. objections therein contained appeared to him so invincible, that he declared they could never be answered; and yet in a few years from that date, Broussais became a fierce disciple of Gall, publicly teaching phrenology, and declared the chief advocate of the sect. This change in opinions has hitherto remained unexplained, but whatever its cause, it was a true triumph to phrenology. The noise created by Broussais' conversion directed attention aftesh to the doctrines of Gall, and reanimated their discussion; but, Broussais excepted, no converts of any note were made. It had, however, the fortune to draw towards it, for the first time, an adversary of high standing in the scientific world.

There are few men in France so competent as M. Fleurens to give an opinion on the doctrines of Gall. Devoted for years to the study of the anatomy and physiology of the nervous system, he has been distinguished by the most able and original views on this subject. dowed with a philosophical spirit, and familiarized with the workings of the human understanding, he has been enabled to expose the contradictions and the errors of the metaphysical part of the system. M. Flenrens examines successively the doctrines of phrenology as laid down by Gall, by Spurzheim, and by Broussais. Attaching himself principally to Gall, as the founder of the system, he shows that his fundamental proposition, namely, that the brain is the organ, or organic seat of intelligence, has in it nothing new, although Gall pretended to give this assertion as a discovery. With a lew insignificant exceptions, all ancient and modern physiologists and physicians have expressly acknowledged the special relation of the brain with the intellectual and moral manifestations. It is in the brain that all have placed the seat of the soul. The functions of

regard to the second proposition of Gall, viz, that each individual faculty of intelligence possesses in the brain an especial organ, although always suspected and admitted a priori, by reason of analogy, still the fact of the plurality of organic conditions being conformable to the plurality of functions, had never been demon-Gall then possesses the merit of having more clearly defined this question, and of having undertaken direct researches for the verification of this idea. M. Fleurens, however, observes, that phrenologists commit a capital error in attributing to the entire mass of the brain a participation in the production of the intellectual and moral phenomena — We must, in fact, abstract from this order of functions at least three parts, the use of which has been directly demonstrated by his own experiments, as well as by those of other physiologists, viz., 1st, the cerebellum, which governs the movements of locomotion; 2d, the Inhercula quadrigemina, the seat of the internal principle of the sense of sight; 3d, the medulla oblougata, the seat of the principle directing the respiratory movements. There then remains for the special acts of the mind, and of sentiment, but the brain properly so called, that is to say the hemispheres. But by confining the research of the individual functions of the mind to the hemispheres alone, Gall is equally proved to be in error. Direct observation proves, in fact, that portions of the brain may be removed from all points of its surface, without sensibly affecting the manifestation of intellectual life; and that when this loss of substance execeds in depth certain limits, sensation, volition, and intelligence, become gradually weakened, and eventually cease altogether. There are not then distinct seats for the various operations comprised under the generic term intelligence, and the seat of these operations appears to be unique, as intelligence itself is unique.

M. Fleurens then combats with great force, that strange psychological doctrine of Gall, in which he asserts that the acts of judgment, of perception, of imagination, of memory, of reasoning, which essentially constitute intelligence, are but secondary functions, simple accidental modifications of other faculties, and transforms each of these pretended fundamental faculties into so many distinct individual and separate intelligences. M. Fleurens dwells particularly on the puerility of that philosophy which attempts to explain each diversity of talent, of instinct, or of taste, by the intervention of a special faculty, designed especially for this purpose. The whole philosophy of Gall, he concludes, consists in creating unitiplicity, in the place of unity; dividing the intelligence, which is one and general, into twenty-seven petty and individual intelligences, and breaking up the brain into twenty-seven small brains; thus substituting an unintelligible chaos in place of the mutual relation and admirable order of the human understanding.

We pass by the remarks of M. Fleurens as to the practical consequences of a system which, according to him, destroys free will, and with free will all essential notions of morality, and come to the anatomical part of the subject. According to phrenology, the faculties are organs; there are as many organs as faculties, for the faculties are merely the functions of the organs: But do these organs exist? Gall never succeeded in showing them, nor even in theoretically defining them. He himself acknowledges that the study of the structure of the brain had taught him nothing, and that it could teach nothing as to the nature, or even the existence of these organs. the brain, taken in a general sense, were per- Anatomy then furnishing no evidence, Gall tinued) on the Developme feetly well known before the time of Gall. With had recourse, for the purpose of determining B Williams in our next.

the position of his cerebral organs, to the empirical examination of the cranium, that is to say, to craniology, and lays down the following suppositions:-Ist, that the organs are situated upon the outer surface of the brain, an hypothesis based only upon the exigences of his system; 2d, that the cranium represents the configuration and prominences of the brain with fidelity and precision, a fact which the least anatomical knowledge proves to be false; 3d, that the functional action of these pretended organs is rigorously proportioned in intensity and energy to their relative size. And it is upon such conjectures that phrenology pretends to have demonstrated the existence of 27 or 35 organs, as distinct in situation, in form, in size, and in functions, as the five organs of the senses!

M. Fleurens then points out the difference between the doctrines advocated by Spurzheim and those of Gall. He shows the contradietions of the two systems of the master and the disciple, and that however they may appear to agree upon general outlines, they are so opposed in their manner of defining faculties, of explaining their mode of action, and even their number, that if the theory of the one be true, that of the other must be equally false. But while strongly condemning the organologic system of Gall, M. Fleurens does not fail to acknowledge the services which it has rendered to the anatomical study of the nervous system, and of the brain in particular, and pays a just tribute to the talent and ingenuity of this celebrated

TO CORRESPONDENTS.

The Sydenham Publishing Society,-Several, Correspondents speak highly of such a Society, and office to become members, in the event of its being founded, when they will at once give their names. One suggests the difficulty of managing it by an unpaid Committee, and instances the failure of the Beitish Medical Association as a proof. (We should think it somewhat more difficult to manage to keep it up by a paid Committee.) I third speaks of the ruin it would inflict on many respectable publishers, and urges us to take no part on either side. Mr. Burns of Edinburgh, doubts whether a London management would please all; and Mr. " H. Hudson Rugg, Surgeon, London," announces that he has a body (no numes are given) already established for the purpose.

An Apprentice. Undoubtedly, in reference to the Hall. There might be some difficulty in respect to the College.

Capt De Borgh .- We have not given the part enquired about. The whole work in German may be gut through Mr. Black, of Wellington Street, North.

Clarke's Apparatus for Fractures of the Lower Extremities, We have been requested to call attention to this ingenious and comprehensive improvement, but it was so well described in a past number of our journal, as, we fain hope, to make further notice un-

A Subscriber forwards an advice bill placed in his hand, containing the offer of advice and medicine for si epence each application, by Mr. Joseph Nelson, M.R.C.S.L., at Mr. Dunn's, the Chemist's shap - We can only hang out his name with "hume tu vaveto." The College should risk (if there be risk in the matter) the expulsion of such fellows.

Periscope, Junior, has our best thanks.

M. R. C. S. L.—Mr. H. P.—Argus—Why and Because -- Emptor -- Four or Five Constant Readers

We shall think over Mr. Dawton's paper

Mr. Prideanx's note was received. We receive subscriptions at all scasons.

XX-Minor-Punch-A Medical Reformer-" A Wise Son" - " A Provincial that was," have our thanks. We shall sacrifice the latter's wit (if compelled by that demon, space) with much unwillingness, B. M. T. will find his answers in our leading obser-

rations, as Milo will find his in our advertisement page. The Conclusion of Orfila—Lectures by Serves (continued) on the Development of Organs—and Dr. C. L.

Y. Y. At was resisted as an unjust demand, and some successioner it was reduced rearly one half.

NOTICE.

ON THE 183 OF DICTMBURNEXT, WILL BE TUBLISHED, AS AN APPENDIX TO OUR ORDINARY NUMBER, A MEDICAL ALMANAC, REPERTE WITH MATTER THE MOST VALUABLE AND INTEREST-ING FOR THE MEDICAL PROFESSION.— IT WHA CONSIST OF 72 QUARTO CO-LUMS, PRICE 17, PLAIS, 54, STAMPLO.

THE MEDICAL TIMES.

SATURDAY, NOVEMBER 12, 1842.

Vare com pacifies difficultime congregation

The British Medical Association held it. annual meeting at the British Coffee-house. Cockspur-street, on Tuesday evening. The meeting was composed of between one hundred and one hundred and twenty persons, and the refreshments which followed were partaken of by about sixty guests. Instead of making the proceedings the subject of an extended report, we diall present them in the condensed form more suited to their absolute importance, and make concurrently such temarks as their nature and bearings may suggest.

The chairman, Dr. Webster, of Dulwich, opened the meeting with some general observations. He seemed to have two objects in view-first, to prove that the A peintion was neither contemptible in its constitution, nor insignificant in its doings: and, secondly, that in the present state of the profession, and in the prospects held out to it by Sir James Graham's bill, there was a necessity for the medical body's doing something extraordinary. The preparation of a proposed Act of Parliament deputations to Lord Campbell-Sir J. Graham-and the Poor-Law Commissionerswere the evidence mainly adduced to prove the specessful working of the Association. to whose exertion, the speaker mainly attributed the merit of those Poor-Law ameliorations, which have commonly been supposed to belong to the independent medical press -the general expression of medical men's opinion-and to the active personal exertions of the late President of the College of Surgeons, who certainly, in this matter, has not yet received his due from the medical public. Dr. Webster re-aunounced the heads of Sir James Graham's bill, which differ in such inconsiderable trifles from the statement we have already given of the measure—that we think it unnecessary to reproduce the details. The report prepared by Dr. Webster was then read: it contained an exaggerated statement of what the Sopressed clevated notions on the Association's power of volition, which was declared equivalent to any other body's action-and referred the subscribers for a statement of their accounts to some future day,some unnamed accident preventing any meeting.

the pality subteringe Sir James Graham's as the College finances needed. He purbill involved-inveighed against his neglect of the Trish and Scottish medical corporation. -- and insisted, in despairing accents, on the necessity of some grand organization. Dr. Grant seemed anxious to have the corporations as quickly as possible in the class of extinct remains, and evidently felt that the circumstances about him gave him little grounds for hoping so capital a subject for the exercise of his brilliant powers of classification.

Dr. Marshall Hall enlarged on the high quadifications and endowments of medical practitioners, and compared these with the position they occupied as aliens in the two Colleges, or the third licensing body -- the Company. He had himself been an alien in the College of Physicians for fifteen years-and his answer to a physician, who asked him what he could grumble about now, being a Fellow! was - that " he had the recollection of fifteen years' exile, in his own land as it were, to grumble at. He referred to the numbers—the intelligence-of general practitioners, and reminding them that in both was power, urged them to me it. Their place was to demand, not to petition. He also recommended unity and organization-spoke of the delights of fraternization, and more intimate intercourse, assuring his audience, that they would be truly happy,

- si bona sua no-rint.

He proposed that, with or without law, the profession should form itself into one Faculty - and deprecated strongly the maintenance of such degrading terms as apothecary and general practitioner, wishing both to merge in that of Member of the Faculty. He finally, on the plea of ill-health, announced his approaching adieu to medico-political life, asseverating his changeless opinions. The president, announcing that he had no seconder named for the resolution, suggested the duty to Mr. Pilcher, who briefly remarked that medical men, from their superior attainments, might be safely entrusted with discretionary political powers, which might be dangerous in other hands-and suggested this as a reason why the government of the profession should be in its own hands. It would seek not its own aggrandizement, but the public good. Dr. Lynch followed in an eloquent and much-admired speechexpressing his wonder that medical corporations should be now the only existing self-elective anomalies in British Government—and citing the opinions of Aston Key, Professor Kidd, and Sir James Clark ciety had done during the last year-ex- on the utter incompetency of the two Colleges to discharge their duties decently to their members' profit or satisfaction; he deseanted on the political apostacy of Lawrence-inveighed against the preposterous arguments adduced in favour of the present corporations-and especially against the being forthcoming at the members' annual segregation of one class of practitioners

pied about two minutes, dwelt strongly on the curricula were lengthened or shortened sued in detail the various grievances of the profession, and expressing a high opinion of the general practitioner, whose skill he placed above that of either the pure surgion or physician, expressed a hope that that hard-worked body to which he belonged would one day get their real merits, and occupy that position to which their education and services to humanity gave them a fair title. He concluded by a strong reprobation of the proposed new bill, which, it was declared, would make had worse. Here, the president read a letter, which he described as a blast from the north, which expressed warm approval on the part of a Medical Reform Society of Glasgow, of the scheme of starting a new Faculty by the members themselves. Mr. Riadore Evans, who was startled by an appeal to him to support a resolution which had evidently not been communicated to him, now shortly expressed his hope that something would be done-with his conviction that the project proposed had its difficulties.

After Professor Kidd and Sir James Clark had been emplied honorary members, and two other gentlemen elected ordinary members, Mr. Grainger was called on for his orition on Medical Reform. The essay was perspicuously and well written, abounded in an article we should not have expected to find near so many teles exaltees, sterling common sense,—and, on the question of Medical Education, advanced opinions deserving the highest consideration. It will shortly appear in print, when we shall renew our acquaintance with it, not, we believe, without pleasure and advantage to our readers.

After an unostentations upper, in which -according to the report before us-the two great political qualifications of the ruling dammviri,-the overflowing graciousness of the president, and exuberant appetite of the polite secretary - were favourably exemplified, a series of toasts were given, and the festive scene became enlivened with a merriment which, honomable or not to the cause, must have been a source of much happiness to those assembled and elevated to the fit humour for appreciating it. If we may believe the report, a gentleman's song of love, with an overhanging large pictine, called, by a speaker, "luscious," of a nude Venus in the arms of Mars, formed, with their connection with the reflex functions of the unexcited Dr. Hall, an exhaustless fund of oratory, and endless source of amusement.

The following, apart from the routine votes, were the Resolutions: we especially invite attention to that we give last : -

That while we rejoice that the persevering efforts of the profession have obtained from the Poor Law Commissioners the amelioration; contained in their late Medical order; the association will continue their best endeavours during the next Session of Parhament to procure further amendments in the present for the poor, and another for the rich,—the defective system of medical relief.—That the plan Professor Grant, in a speech that occu- division of labour, &c., and affirmed that proposed to the Commissioners by this Association

for the poor under certain regulations, to select their own medical attendants from the qualified practitioners in their neighbourhood, would be alike beneficial to the poor, and satisfactory to the

profession.

That any measure of medical reform, which does not contemplate the union of the Profession into a representative body; equal rights and privileges as members of that body; uniform qualifications for a title to practise throughout the British dominions; and protection to the community and the profession from illegal and unqualified practitioners, will be most satisfactory to the profession, and will be stremously opposed by the Association.

ssectation.
That it would be highly desirable, under before circumstances, to unite the Medical existing circumstances, to unite the Medical Profession into one Representative Body or

That a standing Committee in London, should be appointed by the various Associations, and by County Committees to promote this and other important objects; to watch proceedings in Parliament, and to act as circumstances may

That a Committee be appointed by the Council to acton behalf of the Association to correspond with other Associations and Committees, for the purpose of forming the Central Com-

mittee.

The object of this Resolution appears to bave been, to sound the medical public on the possibility of forming a Faculty of Medicine, whether Parliament or Liw sanctioned it or not. If the sanguine concocters of the scheme had any notion of its feasibility, through their agency, before Tuesday last, the chilling reception the amendment met from the gentlemen assembled, must have dispelled the delusion. The truth is - and we express the repulsive truth with the sincerest regret -- there is nothing (at present) in the Association calculated to lead to the remotest chance of its proving of usefulness. There is after disorganization in its management: there is in it no brotherhood of sentiment-no kin !liness of feeling - no bond of mutual regard or esteem-no harmony of design-no concert of action-no element, in short, of unity or cohesion. The Council considered as a body of gentlemen meeting, considering, discussing, acting, --- as anything, in truth, but a prospectus list of names, is a MURE SHAM. Mr. Grainger is an annual shew-card; Drs. Grant and Hall announce their retirement; Mr. Farr is silent; Dr. Granville away; speakers cannot be found numerous as Resolutions---yet this crippled, disorganized thing, this worst-constituted and worst-managed Society in the Empire, broaches a scheme which, with the best circumstances, and under the wisest direction, would present all but insuperable difficulty of realization. To do the Association justice, there is real magnificence about its pretensions---it is the wren with the cagle's cleaving wings, and it never moves into absurdity without being carried by native weight to the culminating point.

We deplore --- we deeply deplore --- to augur so little succour from this quarter, at a time when all the forces of medical reformers should be in requisition, and shewing their best metal, under the best guidance. But the crisis is imminent, and there should be no misunderstanding: we should exactly know what we have to Council of the College have informed us, in and troubled fountains of the heart. We

count on. It will be no consolation, after the supposed support has sunk under us, to say we had hoped better things. The RULD IS ROUTEN . --- let it be known. Will the profession rely on it---or on themselves? If on it---we are in the hands of the Philistines, and the Corporations have us for another century. No power on earth can save us! If on ourselves---holdly, prodently, energetically --- we may yet show the enemy bold --- aye, successful fight. But there is no time to be lest.

The letter of Mr. Guthrie published in the Minigean Times, a fortnight since, has produced a small sensation. The country practitioners, are in various degrees of excitement; the council of the College of Surgeons are by the cars—and each day brings with it, a thousand intimations of the circulation of our Journal, in the shape of applications to the College, of Gentlemen, who wish to be examined "on their merits practically,'

The Councillors are, to use an Americanism, clearly in a very tarnation sort of pickle, and how they will get out of it with respectability, is a question of some interesting speculation. Deny the practitioners the boon the late president so providently extended to them—they dare not. The word of Mr. Guthrie has been given --the emergency demanded it—and he is not the sort of man to recall it. The council then must eject the ex-presidentand mortally offend and disappoint and inconvenience numbers of country practitioners-or these mu t be inducted into the College on satisfactory proof of their competency supported by the usual fee, But can the College-dare it insist on the fee under such circumstances? Through their ex-president, they have so operated on the Poor Law Commissioners, that these now insist on the London College's diploma: did they do this for their own emolument, or the public good? Who will be in doubt, if they make the arrangement so procured, a somee of corporate and individual lucre? They must then admit the experienced practitioner, and they dare not in decency, derive from the admission, a petty pecuniary profit, which would disgrace them as trafficking negotiators and mercenary tradesmen for ever.

PROFESSOR OWEN, F.R.S.

The medical profession must rejoice to learn that the Royal favour, which has been confined heretolore to the eminent cultivators of the exact sciences, as Herschell, Airey, Faraday, has this year been extended to Professor Owen, whose invaluable services to Physiology and Comparative Anatomy have long been acknowledged by the Institute of France, and other learned Academies of Europe. We shall, at present, limit ourselves to alluding to his Catalogue of the Hunterian Collection, the different volumes of which must have been in the hands of many of our readers. The

the preface, "that they have great gratification in acknowledging the unremitting labour which has been for many years bestowed on this great work by Mr. Owen, one of the Conservators, and now Hunterian Professor of Comparative Anatomy and Physiology, to the College, to whom its publication has been exclusively confided.' The Hunterian Collection cost £30,000 of the public money, when it was without a Catalogue, and so continued for many years, a scaled book to the student. By how much is its value increased now, that, by its scientific arrangement and description, "he that runs may read it?" We do not remember any scientific services to the State, for which a pension of \$200 has been awarded, of a more solid description. or better merited, than those which Mt. Owen has devoted, during the best years of his life, to this important work. We congratulate the distinguished Professor --we congratulate, still more, the Government --- on this most judicious act of justice.

PENCILLINGS OF LIVING MEDICAL WILH.

DR. HAMILION ROL-MR, LYNE-DR. BUREL-MR. HALL THOMESON,

Dr. Ham Iton Roe, whose magical influence over his congregation, we attempted to describe in our last sketch, takes the means to command success. The style of his oratory is well adapted to excite tender emotions. It is Moore without his metre-poetry converted into prose, and without its measured chains. His Lix terms, his voluptuous, his oriental imagery, is entrancing. You feel that the loves of the angels, if not fact, are at least more than fiction. His sparkling fancy lays the whole range of ereation subsidiary to its invasion, and it has ample scope for its excursions upon the vague immensity of the endless sea of theology. He invests ordinary subjects and otherwise uninteresting, with a charm that makes his devotees feel that his doctrines are full of pleasing reveries, and the warm imaginings of the young and blooming lady of high and hot blood can, under his guidance, venture into the sacred bowers of even Eastern poetry without peril.

This glowing and impassioned language bears all the character and glory of spontaneous enunciation, or rather of inspiration. But these imprepared creations of religious rhapsody are carefully and artfully digested in the study, and afterwards thrown off with such volubility and earnestness as to impart the illusion of extemporaneous oratory, and its enthusiasm and sincerity are calculated to make converts. Ars celare artem, is the highest proof of rhetorical proficiency; he certainly gives it the appearance of natural and momentary impulse. The purple patches of embroidered cloquence, he works most skilfully into the frame-work of his discourse. It requires a very discerning car to detect the real from the mock mosaic. A very prepossessing appearance, graceful animated action,-

Hands, lips, and eyes, are put to school, And each instructed feature has its rule,exercise their wonted power over a very susceptible auditory, to whom it would be

sacrilege-nay, almost blasphemy, to insimuate that his addresses were drawn from artificial sources of emotion; and not from the deep

ought to say a word upon the composition of his obedient and fleecy flock. They are of the order miscellaneous. The gentler sex prepen-derates considerably; to the majority, the air di tinque applies. They look very grave, but their vanity, though of the serious character, is displayed in their dress, and equipage. The elder portion of this class, are known by their conspienous piety and paint, and by the elaborate and estentations lumility with which they glide into their seats. A pleasing difference to this group of devotees, is presented by the gay, the graceful, the scented, the sweetspirited, the cherub-lipped lispers of the unknown tongues, whose Beloise tenderness, and impassioned innocence, make you waver whether you will embrace them as sisters in spirit or-not. Their eyes, as they are lifted up in adoration, are at intervals tenderly and surreptitiously directed to their companions of the opposite sex, who are overjoyed if the fond one in the pious up-turnings of her eye during the excess of a fit of devotion should abstract her mind one moment from heaven to think of bim. This mixture of human with evangelical affections is very edifying; it is a beautiful specimen of the doctrine of sympathetic attraction, or rather of single and elective affinities; an illustration of the, at times equally suspensive magnetism of earth and beaven.

There is another class some ten years older, who oscillate in a state of disagreeable suspense between these two extremes, and who finding themselves neglected by the latter, are disposed to dedicate themselves to the former, and who flock to the doctor to teach them resignation and self-denial.

There is another class- they reckon very few in numbers, but are distinguished by their obstreperous zeal. Those who have reformed—who have turned from their evil ways—who have occasioned much joy in heaven—who now pionsly incline to give up the plural for the singular number. Now, their passions decline, and piety makes intoads upon their boundaries.

Servants, too, are to be met with here of noble families—who are equally solicitous of their temporal, as well as spiritual, welfare, and who on a principle of reciprocity, consider that the maid should be of the same religious opinion as her mistress. This class forms a corps of peripatetic advertisers of the doctor's skill and goodness.

We cannot enter farther into an analysis of all those males and females who assist at this fanatical mummery. The doctor, as high priest or grand referendary, is consulted upon all essential points, something upon the principle of a chamber lawyer; his opinion is a decree final and infallible. He does not meddle in matrimonial matters, as has been alleged.—There is a committee of persons whom we call of the neuter gender, to whom these delicate negociations are intru-ted.

His evangelical is blended with his professional reputation. He is followed by poor and rich. His hall down in Hanover Square is surrounded every morning, and we should judge that his practice is extensive and aristocratic. He has written, but done nothing for science. He walks round the wards like a priest in a processsion, with the aspect of abstract and mystical meditation. Another day with leaden eye he seeks the ground, and seems industriously employed in counting with exact precision the nails in every board of the ward which he is traversing. His work on diseases of children evidences a total ignorance of composition. He ventured some time ago to send a ease of cholera to the Lancet. It was a very poor affair. It would shame the penmanship of the humblest general practi- another of the multitudinous evils which the

tioner, whose writings often far surpass the literary productions of our presuming physicians. In this article he advanced no scientific explanation of the phenomena of the disease, only "that when a violent spasm came on, the patient writhed about the bed, and that he recommended empirically landanum and ammo-He shews zeal and ability in his official duties, and when not wrapped up in his musings, is jocular and communicative of what be knows. As a lecturer he is neither eloquent nor fluent.—The principles of his therapentics are not fixed -his practice is equally variable. He looks for the causes of disease in organic lesion. He is a solidist; he might as well search for wisdom in a wig. He is a kindhearted, amiable man, always ready to do a good action, and never unwilling to befriend those who are not in a condition to help themselves. The lines of the poet may, without inappropriateness, be quoted for him,-

Thus to relieve the wretched was his pride, And even his failings leaned to virtue's side; He tried each art, reproved each dull delay, Allured to brighter worlds and fed the way.

Mr. Lynn is nephew to the late senior surgeon, and forms one in the many instances in our charitable institutions, of the effects of nepotism-not but what one less fitted than he might have been elected yet it is certain, a less near connexion to a preceeding pure, would have been a disqualification to Mr. Lynn, as he is no favourite with the governors and medical officers, and the reason is obvious. He is too unassum ng, too mild, too gentlemanly a man to be a match for the dictatorial individuals who form the majority of his colleagues and the house committee. By such men he is regarded as a person whose opinion is far below any of the other medical officers. He consequently receives many slights without notice: which none but one aware of having been raised by the fortuitous chance of relationship would submit to. Mr. L. is far from being without talent; lie is a dapper active man, with an intelligent countenance, perceptive and reflective organs well marked, on a well-developed head. He had been for twelve years, a favourite pupil of John Hunter and is, as a matter of course, a good anatomist; he is also a safe operator: imperturbable sang froid, great presence of mind, manly confidence in the conclusions of science and reason, are his distinctions. He has not contributed even the widow's mite to the Westminster poor box of improvement. Factis non verbis, is his motto. He has no ambition to appear in print. They say that he is a man of no literary or scientific attainments. We cannot predicate whether he is so or not. We rather think that it is not true; he abhors the unprofessional parade, and vain-gloriousness of his hombastic colleague. Notoriety, the pass-port to all monopolies and corporate bodies, he shuns. The echo of his name and fame reverherates not beyond the stuccoed walls of the institution of which he is a diligent and useful officer. He is an hospital surgeon nevertheless and why not a member of the council? He never made them tremble beneath the thunder of his dennuciation. Fear and sycophancy are the keys that open their closed doors. never truckled like the crawling slimy reptiles who, with less merit and pretension, disgraeceven the sittings of this secret council. His manners and appearance are unpretending and agreeeable. He is bland and obliging to all subprdinate to him, and friendly, colloquial, and instructive with the few pupils that still remain to walk the wards. There is no pity or sympathy felt for his rejection by the conneil of the college. Their cruel, capricious, and unjust treatment of several excellent men, is

present abominable system cutails. They are now wholly irresponsible They can set the indignation of the profession at defiance. What happened to Lynn yesterday,may occur to another to-morrow. They may pass over whomever they think proper. Every man whose name is on the list of the college, has an interest in resisting their assumption, and should join his brethren in bringing them under the controul of the profession by making them eligible periodically by all the members.

Dr. Burne, aged 40, is a tall, well-looking man, and has the name and credit of being a clever man. He is a very fair and fluent lecturer. He married the Bishop of Hereford's daughter, which advantaged his professional prospects. His clinical instruction is worth attending. He published an octavo on typhus. It is a summary of the information then known; he divides it into advnamie and inflammatory The 2d division, or advnamic, includes the putrid of Sydenham, the slow nervous of Huxham, typhus gravior, typhus mitior, and synoclins of Cullen, and the essential of Clutterbuck. In his preface he says, if we consider the limited views of some authors, we confess that there is much wanting to perfect our knowledge of this disease. The accuracy of this observation we fully assented to after a perusal of the doctor's production: " Aneient writers," he observe-. had to contend with the disadvantages of a defective acquaintance with morbid anatomy, and, therefore, could not possess the means of attaining correct notions of fever." The merest tyro is aware, that of all the diseases that flesh is heir to, typhus is just the one which pathology throws the least light on. Those who attributed it to lesions of head, such as Clutterbuck, to lesions of chest, of stomach, of liver, of mneous membrane, of intestines, have found ont their error; and the profession begins to look from the solids to the altered and varied state of the circulation; for this is the true explanation of the cause of typhus. sole study of solidism, even pushed to extremes, affords only negative information; animal chemistry is the only channel through which we can hope to find a solution of the difficulty.—The doctor lays down rules which can never be followed and formally describes distinctions which never existed. The book is full of professional proverbs, the paternity of which belongs to, and we fear will die with him. They remind us of Seneca's observation,-

Nil sapientire odiosius acumine nimio,

He lays down, too, theories with all the importance of fundamental doctrines. We had reviewed at some length for, like Johnson, we delight in that intellectual chemistry which can separate the good from the bad qualities in the same individual, and we endeavoured to exercise it with regard to the merits of this work, but our sketch will not allow room for it. The exciting cause is, in his opinion, cold. He very properly rejects the absurdity of localising the seat of fever, and laughs Clutterbuck out of the field. His means of treatment are emetics, aperients, bark, cold affusions, bloodletting. mercury, opium, stimulants-a pretty extensive range of therapeutic agents. Bloodletting, however, he uses with caution, amounting to prohibition. It is now very generally regarded as rank homicide in this disease. The authority, or success, of Dr. Southwood. Smith are not able to induce practitioners, who have witnessed its murderons effects, to recur to it. His views and assertions we intended to meet by quotations from the numerical plan of Louis, especially his observations and animadversions upon the ancients, upon the pulse which Louis proves to be correct and the Doctor wrong. It is on the whole the best work we have on tvphus, excepting always Stevens and Louis's able works. He has also written an useful work on constipation-his style is more copious than correct.

Mr. HALE THOMPSON is the prince of puppies: we wish, to regard our professional brethren, through an achromatic medium. The annoyance, ignorance, and impudence, of some men will not allow us. A judge said to a lawyer, who expressed his surprise at his tolerating it in a witness; "I was paralyzed," teplied he "with admiration; his impudence was sublime." A very opposite feeling is ereated by witnessing the escapades and endless altereations of this very conceited and emptyheaded young man. We never knew a man whom the great body of all those who come in contact with him are more unanimous in He is a very insignificant perdisliking. sonage-there are no salient points about him -there is no intellectual character, or history, to refer to. He is the Count Fathom of West minster. He got his situation by money; he married a banker's daughter. He is a goodlooking, dark, curly-haired gentleman, and keeps a dashing equipage. He was goosed, as they term it, out of the chair of Westminster School. He has an Infirmary for Diseases of the Spine at the back of his house. His treatment, and practices to attract rich patients, I wish not to allude to. He is not liked by the pupils: they tell a story of a pupil of the name of Deschamps purposely asking him if the bone of the os coceygis was the last phalanx of the thumb, and that he answered in the affirmative.

We would remind him that there are two orders of intellect to be combined, to be emineutly great—perceptive powers which exist in the collection of facts, and the reflective powers which systematize and draw conclusions. Has Hale Thompson ever furnished a fact hitherto unobserved? Has he favoured science with any valuable inductions? Has he in any way fulfilled his high functions, by exposition, scientific elucidation, or accurate practical observation?

We would also urge upon him Swift's proverb,-

Every man has just as much vanity as he wants understanding.

The hanteur which he assumes-the peacock air-only provoke reflections which had better be avoided. He is a very little personage-his opportunities will never make him Train and discipline a dwarf, he otherwise. will never become a giant. He is a living evidence of the iniquity of our system of Hospital Elections. Mr. Guthrie has, in a recent vindication, called by courtesy a clinique, acknowledged the glaring abuses that exist This is the grossest and greatest of Thompson, as his fag, will be one day, perhaps, a member of the council!!!

PROBE.

REVIEWS.

On Injuries of the Head Affecting the Brain. By G. I. GUTHRIE, F. R. S., Surgeon to the Westminster Hospital, Opthalmic Hospital, &c. &c. Churchill.

Trus is the title of a work which exhibits in a condensed, and highly interesting manner, the result of much experience, in a very important, but difficult, branch of surgery. author, who is well-known in the surgical world, and who stands at the head of perhaps the most rising school in London, has had most admirable opportunities of studying the subject both in military and civil life, and from the acknowledged talents and attainments of the author, we had reason to expect a practical projectors of "The Times" newspaper (for the also?

work of no ordinary value, and we have not been disappointed. The author is a man evidently of acute observation, and of an energetic, if not profound mind. He dashes at once into bis subject, and is practical throughout. though too heedless of method in the disposition and arrangement of the different parts of his subject, his style is perspicuous and foreible. His eases are so condensed that they might have been indited on the battle field, and the principles he inculcates so succinctly, and comprehensively expressed, that they might have been delivered in consultation in a camp hos-All is brief--all directly to the pointall excellent. We have in the work before us, a body of practical information on injuries of the head, which will bear comparison with that contained in any work that has been published. It possesses all the fascination, without the prolixity, of the great work of John Bell, and as a guide to practice, is infinitely more to be trusted to than that work. Indeed, we do not know a book, not excepting those of Le Dran, Petit, Dease, Pott, Desault, Belland Abernethy, in which the treatment inculcated throughout, is more accordant with sound physiology, and approved and successful practice. Our space this week will not admit of a more extended notice, but we shall take an early opportunity of transferring to our columns all the more important novel points of doctrine, or of practice, which the work contains.

Commentaries on Some Doctrines of a Dangerous Tendency in Medicine, and on the General Principles of Sufe Practice. By Sir Alex-Ander Crichton, M.D., F.R.S. Physician to the Emperor of Russia, &c.

(Concluded from page 96.)

SECOND NOTICE.

Possibly a little of the landatur temporis acti may be discovered in this work; but it is pardonable in one whose only aim in writing was the improvement of the profession. But if the sentences we have been quoting are certainly extraordinary, when we find the author detailing at some length in the same and en-suing pages, the treatment of Dr. Millar and Dr. 1. Clarke; treatment which both these physicians declared proved successful in their hands, which has been adopted by numerous subsequent practitioners, and which we are able to vouch from our own by no means trifling experience to be, with certain modifieations, highly efficacious.

This treatment, or, as Dr. Crichton terms it, innovation,-

consisted in giving from one to two ounces of cinchona in substance, together with a strong decoction of the same in einnamon water, in the rery first stage of emilianed ferers, even if the pulse was hard, as well as quick, the heat great, the skin and tongue dry, and the urine scanty. Violent headache did not prevent this practice—pp. 46-7.

In Dr. Millar's testimony our author is not disposed to rely much, because "he was better known among his contemporaries for the oddity, than for the soundness, of his opinions." This is certainly not a good reason. The "oddity of his opinion" might have arisen from his having been, as he decidedly was, before his age, and being such he paid the penalty of being sneered and talked down. But the same thing happened to Harvey, who lost his practice for daring to publish his theory: to Bruce, for telling us more than we dreamed of Abyssinia, especially of the fountains of the Nile, and of rump steaks from living oxen-to Gall for shewing us that the spinal chord was not a prolongation of the brain-to Winsor for offering to illuminate London with gas-to-the

present principal proprietor, Mr. Walter, bought that tremendous moral engine for a few sacks of coals!) to Elliotson for advocating phrenology, and for introducing Prussic acid. quinine, and creosote, for describing glanders in human subjects, for practising auscultation, and exhibiting mesurcic phenomena-while Crosse was all but annihilated because he published his discovery of the Acarus Galvanicus, since placed beyond the possibility of question, by latter experimentalists; and last, not least, Dr. Stevens, author of that valuable work on "the blood," to which we shall have occasion possibly to refer presently, was all but put out of the pale of the profession for declaring from frequent experiment, that the red colour of the blood was owing to the presence of the salts of the serum. Nay, the late Dr. Edward Turner went so far as to declare, in the last edition but one of his "Chemistry" published during his lifetime, that he had made similar experiments, and that the results were contrary to those given by Dr. Stevens. Yet, in the last edition, revised by himself he was forced to contradict this contradiction, and to acknowledge the truth of what the accurate and ingenious Stevens had before stated! In this instance, Dr. Turner had a theory to uphold—a prejudice to support. A friend of his, Dr. Englehardt (we hope we spell his name correctly) had published a treatise, in which he thought be had established beyond the possibility of eavil, that the blood owed its colour to the presence of an oxide of iron.— The upsetting of a bason of water, on a lady's silk dress by a jealous favourite in the reign of Queen Anne, led to heaven knows how many years' war, and so this hankering friendship, of Turner for Englehardt, led to the denial of what we believe to be one of the most important discoveries of modern days, the cause of the florid (i.e., healthy) condition of the blood.

To resume :- Dr. Crichton however, considers Dr. I. Clarke as a physician and practical man in every way to be depended upon. The doctor says, \cdot

In Dr. I. Clark of Newcastle, we have to deal He had been with a very different personage. regularly educated to* medicine and surgery in the University of Edinburgh, During many years he had served in the navy, and had often seen the typhus gravior (the hospital and camp fever) in a variety of climate. After retiring from the service, he established himself in Newcastle, and was appointed physician to the infirmary and dispensary of that city, in which typhus often raged afterwards as a contagious epidemic; consequently, his opportunities of observing that disease were very great.—(47.)

This is a strong prima facie evidence that Dr. Clarke was a man in whom great reliance was to be placed, but when Dr. Crichton informs us that-

His history of symptoms is correct and good, and his precepts for the health of seamen, and the prevention of contagion in the navy, and besieged cities, are judicions and useful. -p. 47.

We do not see how Dr. Clarke's testimony is in any way to be set aside; or that his treatment, which, as we have before said, has been found successful in the hands of other practitioners, is to be considered as any other than that which, under certain limitations, all judi-We have cions medical men should adopt. had an opportunity of seeing both the treatment of Dr. Crichton and that of Dr Clarke tried very extensively in the Tropics, and both successfully. That Dr. Crichton's is more in accordance with the general view of the profession, we readily concede, but we observed

* Was Dr. Millar not a regularly bred man

that patients healed according to Dr. Clarke's plan, (with certain modifications, which we shall give immediately) recovered much more specifily than by Dr. Crichton's, It may be, therefore, useful to state in what manner these fevers were treated in the West Indies. In nearly every ease we ided. The blood was then tested according to the invaluable recommendation of Dr. Stevens. A small quantity of common salt was thrown in the basin, and if, as it generally was, it was very dark, immediately that the salt came in contact with it, it assumed a crimson line, clearly indicating the cause of the dark or black colour to be a deficiency in the salts of its serum. If, on the other hand, the blood was not remarkably dark, we by no means regretted having let bloodsince the patient could evidently bear venesection. But in no case, whatever might be the symptoms, was venesection repeated in our practice. We have seen it repeated in the practice of others, and always with decidedly had consequences. Resinous purgatives, combined with sulphate of potash, soda, or magnesia, or the phosphates and carbonates of the same bases, enemata if indicated; sometimes, but very rarely, mercurial purges were resorted to, but mercury was never exhibited with any other intent than to purge-and that we may dismiss whatever we have to say of this most dreadful poison when injudiciously administered, we add, that we never perceived any good effects from it after the first dose, but quite the contrary. On the first remission of fever, which generally took place during the action of the purgative, though this remission was not always well-marked, quinine was given, sometimes in wine, sometimes in water, at others, with the sulphate of magnesia or soda. For common drinks, effervescent draughts, tamarind or cocoa-nut water, or even very weak wine and water, but this latter was of very questionable utility. If great heat of skin, thirst, parched tongue, and anxiety, were present, spunging the body with cold water, vaunilation, and nitrate of pota s in ten grain doses every hour, were put in requisition. This treatment being persevered in for six or seven days, the fever generally declined on the eighth or ninth day, and on the tenth the This treatment patient was convalescent. was first generally made known by Dr. Stevens, though Mr. Cameron (Treatise on Diet) claims the merit of baving first put it in practice, and accuses Dr. Stevens of having horrowed from him the idea of treating typhus, cholera, and the endemical fevers of the West Indies, with saline medicines. Dr. Ryan correctly remarks that, "nitrate of potass was given in barley-water, whey, and other diluents, and in powder combined with antimonials, in febrile and inflammatory diseases, long before either discoverer was in existence. (Formulary of Hospitals.) - But this must not be allowed to detract from the great merits of Dr. Stevens, or even Mr. Cameron, To Dr. Stevens must be conceded the honor of having first shewn the rationale of the saline treatment. It is also remarkable that, while the writer of this article was pursuing the same investigation as Dr. Stevens, and had adopted, with slight modifications, a similar treatment, Dr. Wilson, of the Middlesex Hospital, was led to much the same conclusion, and pursued very nearly the same plan. Here, then, are three physicians, each unacquainted with the investigations of the other, yet all agreeing much about the same time in their treatment -each believing himself the discoverer of a new system. We, therefore, readily concede the honor to Dr. Stevens; not only because he published upon the subject (as did the writer

of this article), but because he shewed the modus operands of saline medicines, and, we may almost venture to say, discovered the cause of fever.

This is Dr. 1. Clarke's (reatment :--

I have shown the safety and advantage of exhibiting bark carly in continued fever, which occurred in my practice in this kingdoo. From 1779 to 1791. I have attended about thirteen hundred patients in all the varieties of continued fever, and I do not remember that above four cases have come under my care, where the medicine failed."—Observations on Fire,—p 799.

Dr. Crichton adds-

"This is nearly the same kind of confident language, which Rasori, Dr. Armstrong, and others employed, when they recommended forty onnes, of blood to be taken away at once, and repeated in the very same kind of fever."—p. 17-8.

Here, we must admit, the "folly of dogmatism" is painfully con picuous. To lay down rules for the quantity of blood to be taken from a patient, is a blunder too obvious to be exposed. The practice of Rasori and Arm trong did more harm, perhaps, than any other, not excepting the Brownonian theory, and was soon abandoned; indeed, Rasori had the conrage to abandon and condemn his own treatment, after pursuing it misuccessfully for many years! - He substituted counter-irritation, on the aslies of which Dr. Granville erected his superstructure. The practice of Dr. Clarke of giving landamum in large do es, at the commencement of fever, we hesitate not to condemn, with Dr. Crichton, "as had and hazardous treatment." p. 19.-But that Dr. I. Clarke's treatment, taken as a system, was indicious and scientific, we entertain not a doubt. Here is what Dr. Crichton himself says:-

I ought to have observed that the preceding statement of Dr. Clarke relates particularly to the treatment of contagious typhus, or hospital fever, in which disease it has been proved incontestibly of late, that local inflammations are generally detected after death. Nevertheless, in all the stages of this fever, Dr. Clarke gave two ounces of strong infusion of einchona in boiling cinnamon water, every half hour; or an infusion of the same strongth, i. e. an ounce of the cortex to ten or twelve ounces of fluid, to which he added occasionally conserve of roses, one onnce; diluted sulpluric acid one drachm; and one ounce of French brandy; and to such mixtures he also added the powder of bark, as soon as he conjectured the patient's stomach could bear it. In the advanced stages be gave in addition, the Virginian snake root and ammonia. 1 well remember that the publication of Dr. Clarke's work produced a great sensation among the London practitioners of medicine. Most of us had been pupils of Cullen, and had imbibed his doctrines and imitated his practice. Few could be induced to try it at first. The mild diaphoretic and antiphlogistic plan was undeviatingly pursued by the greater number, for the best of all reasons, because it was found generally to be safe as well as success-Nevertheless, some physicians of reputation and experience began to make cautious trials with the tonic plan, and their reports were undoubtedly in favour of it. Doctors John Hunter, Lett ome, Huck, and Sims, and some others, assure as that they employed it with specess. The first of these, Dr. John Hauter, was well qualified to give an opinion on the subject. He had received a full and ample education both in medicine and surgery. He had been physician to the Fleet for many years, and had seen a great variety of climates, and at last resided in London, where he was much respected, p. 48-49.

This is strong testimony, yet such is preconceived opinion that Dr. Crichton manfully argues against it. A papil of Cullen's, and what inbued with Cullen's views, and what Andrew Duncan, jun., calls, "Cullen's professional scepticism," he would rather be wrong with Cullen than right with all the

world beside. Yet is he no scryile disciple; and when he does throw off the Cullenian shalle; he is both a reformer and a liberal physician,—the latter a character so rate, that when we do meet, we cannot avoid paying it homigo.

Among a host of writers whose evidence could be collected in support of the early exhibition of back in typhoid and petechial fevers, there is none more valuable than that of Bruce, because, unlike medical men, he had imbibed no theoretical doctrine to clog his experimental impuiries. At Masuah, a bay on the Red Sea, at the bottom of which is the miscrable town of Atkeeko, violent fevers, called nedad, attack the inhabitants, and ge nerally prove fatal on the third day. The native method of treating this fever is thus described:-" If a patient survives till the fifth day, he very often recovers by drinking water only, and throwing a quantity of cold water upon him, even in his bed, where he is permitted to lie without attempting to make him dry, or change his bed, till another delage adds to the first." (Bruce's Travels [abridged]. 18mo, Halifar, 1840, p. 126.) - Thus, it would cem that the vaunted discovery of Priessnitz is only the adoption of a practice common among a barbarous sept on the arid shores of the Bay of Masuah In England, it is usual to award the credit of the cold affusion in fever solely to Dr. Currie, of Liverpool, but our author recals to our attention a case of fever emed by cold water, reported in the Eph. Nat. Curios. deend. iij. Ann. iij. Obs. 18, and thinks it " probable that Celsus employed this remedy in some febrile disorders." Dr. Wright, however, who practised in the parish of St. Elizabeth, in damaica, and whose acquirements as a botanist were very great, published a paper on the cure of fever by the cold affusion, in the 7th vol. of the Lond. Med. Journ., long before Dr. Currie's work appeared. The honor, therefore, of the discovery or revival of the practice, for which sponging, as being more convenient, has been substituted, is due in this country solely to Dr. Wright .- But to return to the subject of Dr. Clarke's treatment, Bruce, or rather his abridger, writes in the same

There is no remedy so sovereign here as the bark; but it must be given in very different times and manner from those pursued in Europe. Were a physician to take time to prepare his patient for the bark, by first giving him purgatives, he would be dead of the fever before his preparation was completed. Immediately when a nausea or aversion to cat, and an unusual, but not painful, sensation along the spine, comes on, no time is then to be lost; small doses of the bark must be frequently repeated, and perfect abstinence enjoined, imles from copious draughts of cold water. The second or third dose of bark, if any quantity is swallowed, never fails to purge, and if this evacuation is copious, the patient rarely dies; but on the contrary, his recovery is generally rapid. Moderate purging then, is for the most part to be adopted; and rice is a much better food than fruit."-p. 126-7.

Dr. F. S. Stuart, whose "Memoirs" were published in the Monthly Magazine, for Feb 1815, seems to have been extremely successful in fever, and his treatment differed very little from that of Bruce. Stuart, too, was a man who experienced vast vicissitudes, and visited numerous places within the tropics, and was well qualified to offer an opinion. In Admiral Christian's fleet, in 1795-6, then on the voyage to St. Domingo, he was wrecked three times, when upwards of 5,000 men were lost, and one-sixth only of 400 sail returned to England. He was afterwards at the capture of St. Lucia, at that of Martinique, and again at St. Domingo, when 7,600 British soldiers and as

ny seamen, died of the yellow fever, (i.e., bad food, and worse medical treatment.*) hart was not on the staff, and had little or hing to do with the general treatment, and, prefore, should not share the blame of this mistrons and horrible sacrifice of human life, his department he was fortunate, and states treatment to have been—

Five grains of the tartarized antimony† and etable-spoonful of soft sugar, dissolved in fifteen ble-spoonsful of boiling water, one of which is cen every tifteen or twenty minutes, mull it has crated three distinct times, when an immense antity of arcid, called viscid, bile is evacuated, if the patient immediately relieved. To ast and after with nitre (nitrate of potass) is used for minon drink, and an oance of nairen vitriolatum thanber's salts—sulph sodae) in it on the second third day, after which bark in port wine, during state of convalescence, has constantly completed in recovery."

This treatment is very similar to that of larke, Millar, Stevens, and such as we ourelf found highly efficacious in the treatment of
oldiers, sailors, and civilians, during many
ears' practice in the tropics. But we should
stend this article to another number, did we
note all that we might say on this subject.
We shall only add a few remarks on the treattent of Lind, to which, we must express our
arprize, Dr. Crichton has not alluded.

Lind's treatment was,—lpecacum, to relieve he stomach—then salt of hartshorn (earb. mmon.) 5 grs, laudanum. 15 drops. At other mes, 5 grs. of camphor, every four hours, ith vinegar and whey enemata, were re-ommended with these. If they tailed, he distered. He says, "sixteen out of twenty will be next morning entirely free from heat, readache, pain, and fever." Twenty-four or hirty-six hours after, he gave vitriolated tarar (sulph. potass), nitre (nitrate of potass) was also exhibited, but he preferred it in plysters. Antimonials were employed by him, ind Contrayerva and Virginia snake-root (2) lrams of each, macerated for four or live hours n a pint of boiling water, then strained, and wo onnees every fourth or sixth hour), and nock also he freely gave. Bark was freely exhibited during the second remission, " as ill my care during the fever was to cleanse the primæ viæ."—p. 65.

We must now bring our remarks on this very interesting work of Dr. Crichton's to a conclusion, dissatisfied with ourself for having added so little to the vast store of knowledge which the author has communicated, but highly satisfied with the manner in which he has spoken "on the doctrine and treatment of continued fevers of a typhoid character."

continued fevers of a typhoid character,"

The chapter relating to "Insanity," and to the "Non-Mércurial Treatment of Syphilis," are important, and require more time and space for their consideration than we can at present afford. However, from the labour which we have bestowed on the "Commentaries on Medicine," the estimation in

which we hold this volume will be manifest to our readers. It should be (with Stevens) in the library of every medical man in the East and West Indies, and to European practitioners it will ever be found a safe and excellent work of reference.

PERISCOPE OF THE WEEK.

IMPROVED METHOD OF ADMINISTERING Cod Liver Oil.—Dr. Ure suggests the adoption of cod livers as a diet for patients who are recommended to take the oil. To prevent loss during cooking, he recommends the livers to be immersed entire in boiling water, to which a sufficient quantity of salt has been added, and to raise the boiling point to about 220 deg. Fahr. The sudden application of this high temperature coagulates the albumen of the liver, and prevents the escape of the oil. When the liver is cut, the oil exudes, and mashed potato may be used as a vehicle. Dr. Ure informs the Pharmaceutic Journal, that having been advised to take cod liver oil, he found the nauseons flavour very objectionable, until he contrived the above plan, which he finds to answer extremely well.

BISULTHURET OF CARBON. Dr. Turnbull, whose system of using hydrocyanic acid for the eye, we noticed No. 109, Vol. V., says he has now abandoned that remedy, for bisulphuret of carbon. He puts a drachin into a bottle (containing a small piece of sponge) of about 2 oz. size having a month precisely fitted to the eye, and with a ground-glass stopper. He applies the vapour to the closed eyelid; its effect is to contract the pupil, but in what form of disease it should be used, the Doctor says not. He says he uses the same vapour with good effect for the reduction of indurated lymphatic glands. The rationale is thus given. carbon in the vapour permeates the cuticle, and comes in contact with the oxygen, in the vessels and which is conveyed through the frame by inspiration and otherwise, and thereby forms carbonic acid gas, which evolves heat in the ratio of the quantity consumed by the oxygen. Liebeg is quoted as his authority.

INSANITY, - SIZE OF THE HEAD AND BRAIN .-- To find how far the development of the intellectual faculties is influenced by the size of the brain, M. Parchappe, physician to the Lunatic Asylum, Rouen, has carefully examined a great many individuals, first measuring the head in the living subject, and then measuring the head and weighing the brain of the same individual when dead; and noticing every circumstance of sex, age, stature, health, intellect, &e., which was likely to throw new light on the subject. The facts observed by the anthor amount to 341; or 169 heads measured, 58 skulls measured, 22 skulls graged, 95 brains weighed. - The principal conclusions drawn from these facts, considered in every point of view connected with size (the influence of form being reserved), are-Size of Head: The size of the head is much smaller in the female than in the male, not only eu masse, but in all the separate diameters. The weight of the cranium also is less in the female. —Age; The volume of the head does not seem. to be limited by the period at which the general growth of the body ceases; the head appears to enlarge gradually up to the age of 60 years. The increase of size shows itself almost exclusively in the horizontal circular development of the head, and depends chiefly on enlargement of the frontal sinuses. After 60 years of age the size of the head diminishes; the weight of the skull also diminishes in old age.

in small persons,-Idiotcy: The head is much smaller in born idiots and fools than in persons of natural mental powers .- Development of Intelligence: The intelligence bears no proportion to the size of the head in fools and idiots But on comparing the average of size of 10 heads. of men of superior intellect with that of 10 heads of persons whose faculties were below par, the advantage was clearly on the side of the former In men a certain size of head is necessary for a proper development of the intellect, but beyond this we find no necessary connection between the volume of the head and the development of the intellect .-- Race: The Caueasian race is superior to all others with respect to the length of the head and the size of the frontal and occipital regions. The most powerful causes which influence the size of the head are sex, race, stature, and idiotey; the development of the intellect is the least influential. -Mean size of head in both seres: In 22 men and 18 women; intelligence normal; age 30 to 50 for men; 25 to 50 for females.

1612.8 1529.4

Size of Brain.— Sex: The comparative weight of the brain, in 91 persons of both sexes, gave an average in favour of the male; the capacity of the cranium, measured in 30 skulls belonging to both sexes, was also less in the female.——Ave: The author's observations lead him to conclude that the brain continues to increase up to the age of 10; it remains stationary to 70, and then begins to decline.—Stature: In both sexes the weight of the brain is evidently in relation to the stature.—Mean weight of brain (from 30 to 60 years).

Relation between the side of the Head and that of the Benin: As the thickness of the occipital hone is subject to much variation, and the size of the frontal sinuses cannot be determined, it is impossible to arrive at any exact relation between the volume of the head and the form or weight of the brain.— Disease of the Brain in Insunity: There is no cerebral disease which can be regarded as the essential lesion of insanity; the following are those most frequently found: -- Feeliymosis under the arachnoid and pointed injection of a part of the cortical surface, with or without softening; extensive softening of the middle portion of the cortical substance; adherence of the pia mater to the brain; rosy, lilae, or purple color of the cortical substance; atrophy of the convolutions; induration of the brain.

Production of Fat.-M. Dumas gives briefly on this subject the results of some experiments. M. Liebig thus expresses himself: A lean goose weighing four pounds will gain five pounds in weight within thirty-six days, during which it consumes twenty-four pounds of maize; at the expiration of this time the animal yields three pounds and a half of fat. It is evident that the fat is not derived from the nutriment, for maize contains only 1-1000th part of fatty matter." The authority of M. Liebeg is so great, says M. D., that M. Payen and my elf have for a long time sought after the fattening principle of maize, for agriculturists know from experience that a bushel of maize, weighing about twenty to twenty-two pounds, will furnish two pounds of fatty mat-

^{*} The scannen are predisposed to fever from the nature of their food, which is called, and often putrid, without vegetables.—Lind. Treat, of Put. Remit. Marsh. Fev., Svo. Edinb. 1776.—p. 26.

[†] A very common purgative in that shiggish fever of Jamaica, which is characterized by many of the symptoms of hepatitis, is, I grain of opinin, 5 of antimonial powder, and 6 of calonel, and we have been assured by those who leave tried this combination, that, though a slow purgative, its effects are very beneficial. Not having tried it ourself, we cannot offer any opinion.

[‡] The exhibition of vinegar in any form in fever is extremely doubtful, if not hurtful.—See Stevens. Stature; In tall men the head is larger than

^{*} The kilogramme is 2,205 lbs, avoirdupoise,

The experiments which we have made, prove, contrary to the opinion of M. Liebig, that maize contains 9 per cent of a yellow-oil, about five ounces of which I lay before the Academy. Hence, in eating twenty-four pounds of maize, a goose takes in two pounds and a half of fatty matter, and we need not be astonished at the animals furnishing three pounds and a half, counting the fat which it had originally. Hay contains 2 per cent, of fatty matter, and our experiments prove that eattle, while being fattened, and mileli cows always contains less fat than the elements which they have consumed. With respect to the latter, however, the butter represents very nearly the proportion of fatty principle contained in the food of the cow, at least for the two substances just mentioned.

GALVANIC AND NERVOUS INFLUENCES. The following curious experiment of M. Mattenecei, has been repeated several times with success. Two frogs were prepared; from one the skin was removed; in the other there was merely left a single leg with a long nervous filament attached to it; the filament was then placed across the thigh of the first frog, and, on passing a galvanie current through the latter, so as to make its muscles contract, the leg of the second frog also contracted. When a plate of gold was interposed between the thigh of one frog, and the nervous filament of the other. the communication of electric influence between the two animals was interrupted, and no contraction took place; but a leaf of paper did not produce the same effect. The phenomenon now mentioned occurred in pigeons also.

THE CAUSES AND NATURE OF INCLAMMA-TION .-- Dr. Marshall Hall gives the following as his idea of the circulation: He views the veins, heart, and arteries, as the mere machinery by which the blood is conveyed to those yessels or channels in which the real object and functions of the circulation are performed. In and by these channels the various tissues, with the exception of the non-vasenlar, are irrigated, and functions which may be compared to those of an irrigated meadow are accomplished; aeration takes place in the pulmonic; nutrition, secretion, &c., in the systemic, -The true capillary vessels, or blood-channels: the veins and arteries are arboriform. The former resembling the roots, the latter the branches, of a shruh or tree. They are linear. The minute arteries in the web of the frog never anastomose; the veins very rarely. They pursue their course over the tissues. The blood-channels, on the contrary, unite and divide continually, pursuing no linear course, but a course modelled, as it were, upon the minute structure of the part, and therefore peculiar to it. There is no proof that these are distinct vessels; many facts lead, on the contrary, to the opinion that they are mere cleannels formed in the tissues, The pulmonic and systemic blood-channels: these, with the mesenteric, and indeed with those of each and every tissue, are peculiar and characteristic; a fact described and depicted in an essay on the circulation many years ago, and recently particularly brought into notice. Function of the blood-channels: this is one of irrigation. As from the internal surface of the stomach and intestines, so from that of the blood-channels exosmosis takes place, and nutrient and secernal vessels arise, and perform their various and appropriate functions.-The intermediate position of the blood-channels; the blood-channels are placed immediat ly between the arteries and veins, and between these and the various nutrient, secoment, and absorbent vessels. M. Berres, of Vienna, has called them the vasa intermedia. The influ-

heart, the secement vessels, &e., and in a secondary manner only on the blood-channels, and probably on the minute arteries, and certainly on the minute veins .- Non-vasenlar parts are nourished by endosmosis; a process apparently influenced by the degree of energy of the circulation. -The author now came to the first phenomenon of inflammation: this, judging from the circulation and the effects of physical and chemical agents, as seen under the micro-cope, appears to be adherence of the blood corpuscules to the internal surface of the blood-channels, induced by a physical change in the blood, or in that surface. Hence, obstruction to the flow of blood, and henceinflammation and its phenomena.—If we place a ligature on an artery or a vein, the phenomena produced, are hypertrophy of the vessels tied; hypercrisis, or augmented secretion, according to a new-old doctrine; hyperexosmosis, &c., &c. Are not these the identical phenomena of inflammation. Have we not enlarged and new vessels; secretions or separations from the blood, of serum, lymph, pus,and effusion of blood itself, in ecchymosis? -But, further, the blood itself is changed sometimes as the cause, sometimes as the effect of inflammation. In the latter ease we have the buffy coat, and augmented fibrine. We have, also, augmented tolerance of bloodletting, mercury, antimony, &c .- (Dr. Marshall Hall has an oddly "coincidental" knack of discovering the discoveries of other people-a trait only equalled in oddity by the intrepid ignorance he assumes as to every thing of importance done by Herbert Mayo, Bell, Majendie, Sprengel, Boerhaave, and other generally well known physiologists. Dr. Copland so completely restored the main chattel in this appropriation to its rightful owner Sprengel, at a recent meeting of the Medical Society, that nothing is left to us here, but to express a hope that Dr. Hall will see the wisdom of not casting suspicion on what is truly valuable in his labours by discoveries which all his equals were already acquainted with, announced with a bold complacency, and combatted for, with a prevish and fretful perverseness, both alike, far below the real worth of his truly powerful mind. Sir Fretful Plagiary could acknowledge a coincidence in the same good thing being thought of by two good minds. What a golden age of peace would visit the scientific world if Marshall Hall would be but one half as frank? Ep.)

Transfusion of Brood -A man 38 years of age, was seized with an hamoptysis, which continued so long and so violent, that the only means of saving his life appeared to be by supplying the loss of blood by transfusion. On the fifth day after the aftack a canula was introduced into the median vein of his left arm; a syringe, previously heated, was filled with blood drawn from the jugnlar vein of a goat, and about 5 ounces were injected into the vein of the man, humediately he complained of a feeling of oppression; but this soon afterwards went off. An attack of phlebitis came on next day, but was subdued in eight days, by means of cold applications alone. His strength from this day returned, and at the end of three months he was able to resume his usual occupation. It is remarked, as the interesting point of this ease, that it proves that the injection of the blood of one animal into the veins of another, is not necessarily fatal.

lay hold. The balls must be renewed weekly. LUNG TUBERCLES .- Mr. Addison gives the following as the brief results of his researches on the formation of tubercles in the lungs. -The blood, at all times, contains two distinct kinds of corpusentes—the onered, the other colomitess. The colourless corpuscles are highly organised vesicles or cells formed from the central portion of the red corposeles. They combine with, or adhere to, the tissues through which the minuse currents of the blood circulate, and become cells, performing different functions, and assuming different forms, in various parts of the body, in accordance with the primitive law regulating the development of the organism. Thus all kinds of epithelial cells are formed of colourless blood corpuscles, and each cell performs its own function quite independent of those by which it is surrounded,-Pus corpuscles are partially formed cellt; they may be seen in all stages of development, from colourless blood corpuscles in the serum of a blister, to large granulated vesicles, und wellformed epithelial cells in cutaneous diseases. The colourless blood corpuscles have an equally important share in forming "the results of inflammation," as they have in administering to nutrition. - When solely in consequence of their excess, their normal development ceases, they become pus corpuscles; but when they exercise an independent activity they give rise to specific forms of disease.—All the objects composing a tubercle of the lungs originate from colourless blood corpuscules. A tubercular disease of the hung is in all respects analogous to a chronic eruption of the skin (lepra, psoriasis and acne); the varieties and complications of the one are neither greater nor more numerous than those of the other. The colourless blood and pus corpusele of man; immer vesicle of the red corpusels, and the colourless corpusele or lymph globule of the batrachia; the polygastric animalcules; the pollen grain of phenogamous plants; the the spore of epiphyllous fungi, are all analogous in their structure to each other; they are granulated cells, which may be dissected by Liquor Potassæ.

KIESTEINE, -- The discovery of a peculiar principle in the urine of pregnant females, by the existence of which a gravid state of the uterus could always be diagnosticated, was announced by M. Nauche, in the year 1831, to the Society of Practical Medicine at Paris. It is a gelatino-albuminous product, and is separated from the other elements by rest alone, M. Nanche stated, that if the urine be exposed for a few days in a glass, the kiesteine shows itself at the surface in the form of specks and oblong filaments, which unite in a pellicle or scum, a line in thickness. A portion of this sinks to the bottom of the vessel, and forms there a whitish deposit of a milky appearance; the rest remains on the surface, adheres to the sides of the glass, and is converted into a solid membraniform substance. M. Eguisier, who followed him, describes the pellicle as whitish, opaline, and somewhat granulated; it has sufficient consistency to admit of being lifted up with some care by its edges. Dr. Golding Bird considers it to be an imperfect cascous matter, mixed with crystals of the ammoniacal phosphate of magnesia, and, pursuing an idea of Professor Burdach, of Konigsburg, that the elements of the milk existing in the circulation may, during certain conditions, be eliminated, and not finding an outlet by the mamma, be again taken up and exercted by the kidneys, he supposes such elements to enter into the constitution of the kiestemic pellicle. His experiments were founded on the observation of about thirty cases. Equisier is of opinion that

nancy, and so well marked in its distinctive characters, as to prevent its being readily confounded with others Becquerel, however, could not discover it in the urine of three pregnant women which he analysed.—As these writers made their observations on not more than sixty cases altogether, Dr. Kane, while one of the resident physicians at the Philadelphia Hospital, availed himself of the opportunities afforded him by his position, to institute a series of experiments on the subject, the result of which are as follows:-1. That the kiesteine is not peculiar to pregnancy, but may occur whenever the lacteal elements are secreted without a free discharge at the mammae; 2, that though sometimes obscurely developed, and occasionally simulated by other pellicles, it is generally distinguishable from all others; 3, that where pregnancy is possible, the exhibition of a clearly defined kiesteinic pellicle is one of the least equivocal proofs of that condition; and, 4, that when this pelliele is not found in the more advanced stages of supposed pregnancy, the probabilities, if the female be otherwise healthy, are as twenty to one that the prognosis is incorrect. Dr. Kane has been unable to determine the nature of kiesteine by the aid of chemistry; he could not detect in it a notable quantity of either easeum or albumen. The mine was faintly acid up to the period of disintegration, when it underwent the ammoniaeal development, and became markedly alkaline. The pellicle, examined in a microscope, possessing a magnifying power of 100 diameters, exhibited a well-defined series of flakes of a darkish yellow colour, made up apparently of minute granules, closely resembling, but rather more flattened than, the granules of the colostrum.

SAFETY EXPLOSIONS IN COAL MINES .-Mr. Marray gives in the Gateshead Observer the following method as obviating the use of the salety lamp in preserving a salubrious atmosphere for the miner, and being extremely economic. - Let a copper conducting wire, traversing the avenues and recesses of the mine, form the circuit, connecting the poles of a Smee's Voltaic Battery, This copper wire is interrupted at intervals by uniting wires of platinum ; and these platinum wires-say about three-eighths of an inch long and one hundredth of an inch in diameter-form the several nuclei, or centres, of wire-gauze cages each cage having a double fold of wire-ganze. On each immersion of the voltaic arrangement into diluted sulphuric acid, the platinum wires would be simultaneously ignited through out the entire extent of the circuit, and the gas safely exploded and consumed, A Smee's battery of very small dimensions would suffice; and this might be repeated at specific intervals

MEDICAL NEWS.

MUDICAL ACTION, -An action to recover a bill for medical attendance was tried on the 25th ult, at Barnstaple sessions. The plaintiff, Mr. Joce, was non-suited on the ground that the certificate of the Apothecaries' Company did not prove itself. Evidence was given that it was like the usual certificates; but no sufficient evidence was adduced that it was the genuine seal. A question was put to us some time since, to which we responded to the above effect: a contemporary, to the same question, we noticed, gave a different reply; and hence probably this unfortunate result. It cannot be too well known, that since 1826, the Seal of the Company has ceased to be a proof.

of the gennineness of the document, unless proved by a party having actual knowledge of the original scal, who should be an officer of the society.

CHEAPNESS OF MEDICAL CORONERS.—We believe, says Mr. Wakley, that the disbursements of the lattorney coroner are one-third greater than those of the medical coroner. And why? Because the former is obliged to im at more than three times as much capense for the payment of medical witnesses. Frequently, be it observed, when an attorney coroner has heard medical testimony, he is guided by it, led by it, controuled by it, just as it has fallen from the lips of the witness, without having had a clear and distinct knowledge of any one medical sentence that has been intered. (To do Mr. Wakley justice he is sufficiently economical in his payment of medical men for their testimony. If the act for the payment of medical witnesses. be not a dead letter, it is no fault of his. The hon, member contrives to attend twice as many inquests as other coroners think necessary (the payment being per inquest), and to pay medical men, by his own confession three times less! So much for the disinterested friend of the profession! Our readers will do well to remark, that though the other coroners pay three times more for medical testimony their expenses exceed his but by one-third.)

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Friday, October 14, 1812. T. Peat; J. Moore; H. D. Scholfield; J. Rhodes; O. Boyd; C. Telfair; J. Vickerman;

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THE MEDICAL TIMES

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LONDON, SATURDAY, NOVEMBER 19, 1812.

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ON THE LAWS OF THE DEVELOPMENT OF ORGANS; OR, TRANSCENDENTAL ANATOMY APPLIED TO PHYSIOLOGY.

By E. R. A. SERRES, Member of the Justifine, of the Academy of Medicute, Professor to the Miramin of Natural History, Paris, &c., &c., &c.

Summary .- On the Primitive Division of Organstheir mode of increase-Formation of organs by justu-position-On the Morphology of organs-Fieres on the fundamental element of form in organic and inorganic bodies -On the law of homecozygy, or association of organisms—Relation between the constituent elements of an organ and its more form, considered in reference to organogeny-On the true meaning of an organite-Mode of discovering in the adult, traces of organites, &c.

Our last remarks teach how theories follow one another in the sciences; how a system once predominating, and widely spread, leaves behind it opinions which survive long after the hypotheses which engendered them have ceased to be received. The pre-existence of germs ended in producing a tinal division between organic and inorganic bodies; these latter, in fact, being devoid of germs, were necessarily separated from organized beings; but while exaggerating their differences, their analogies were overlooked. The sciences were divided into two classes, and an eternal divorce pronounced between them. The increase of inorganic bodie. takes place by juxta-position, the molecules of augmentation placing themselves, according to certain laws, around the primitive body. That of organized bodies, on the contrary, was considered to take place by infus-susception, the primitive tissue enlarging or dilating itself. Such was the generally received opinion. M. Chevreul, however, remarked that this expression though applicable to the total process of development in living bodies, ceased to be so when considering the immediate constituents of the tissues, their increase being explicable only by juxta-position, as that of inorganic hodies. According to this celebrated chemist, the phenomena of untrition consist in the juxtaposition of new organic molecules upon the old

The same law which presides over molecular nutrition, in like manner governs the primitive formation of the tissues and the increase of organs. Thus the blastodermic membrane in the embryo is originally composed of two layers placed in juxtaposition, the internal inneous, the external serous; subsequently, however, a vascular layer becomes interposed between them, so that this membrane is definitively constituted by the juxta-position of three layers. Now it is from these three layers that all the organic systems arise, and, whatever may be their varieties of form and of function, the mechanism of their construction is a repetition of that of the blactodermic membrane. Thus is the osseous system produced in the first instance by a layer of fibres, upon which new layers become successively placed, and which, according to Malpighi, might be compared to the leaves of a book. The muscles elliptical orbicular, or perfectly cirlincorporation, and form but a single bone, which,

In like manner, the osseous tissue of the tooth is constituted by a succession of fibrous lamelle, not milike the asseous layers; and upon the primary osseons layer we shall find deposited, by juxtaposition, the vitreous layer. The osseous fibres, moreover, do not extend continuously along the entire length of the bone; but when examined by the microscope, they appear to be formed by a series of fibrillae super-added the one to the extremity of the other. The elongation of bones and of teeth takes place then by super-position, and their increase in breadth by juxta-position.

Although differing greatly from the osseons system, the formation of the nervous system takes place in the same manner. On examining by the microscope the two layers of nervous matter originally constituting the spinal marrow, we observe that the fibres composing them appear interrupted at various spaces, instead of forming a continuous fibre from one extremity of the spinal marrow to the other. The increase in length as well as in breadth of the spinal marrow is then similar to that of hone. It is by a successive juxta-position of nervous layers that it acquires its future volume.

With regard to the vascular system, which forms a continuous whole closed at all parts, this mode of formation at first sight appears repugnant to nature. Still, during the primitive formation of the embryonic circulation in the omphalo-mesenterie membrane, we may see the capillary vessels, scattered in small isolated plexuses, join themselves one to another, thus producing branches, and finally trunks, and this lengthening takes place by a succession of hollow fibres, joined one to the extremity of the other. While this elongation is taking place, a similar increase in breadth is being accomplished by a juxta-position of layers, the number of which remains yet undetermined.

But above all others, the muscular system appears subjected to this general mode of formation. Every one knows that the force of a muscle is proportionate to the number of fibres constituting it; that the muscular fibre is interrupted in its length, at various distances, by fibrous intersections, of which the recti museles of the abdomen afford an example. This fact is distinctly shown by the microscope in the infusoria, in the larvae of insects, and in the fibrous bands constituting the muscles of the annelida, of the earth worm, and especially of the leech. Lastly, this arrangement may be seen with the naked eye in the muscular bands entering into the structure of the intestinal canal. A remarkable feature in this aggregation of parts is, that union takes place only among similar structures: thus nerves join themselves to nerves, arteries to arteries, and so on; but never do we see arteries and veins unite themselves with nerves, or the elements of the osseous fibre associate themselves with those of the muscle. cause of this phenomenon is, however, perfectly nuknown to us.

We now come to the form of organs. In the theory of pre-existences the form of organs was at all periods of their development considered immutable; thus placing organogeny in direct opposition with inorganic bodies. As in the latter the straight line is the fundamental element of form, so was the curved line made that of the form of organized bodies; the surface of inorganic bodies being angular, that of organic bodies was necessarily rounded: in a word, as the forms of the first are all derived from combinations of the straight line, so were those of the second from combinations of the curved line. These facts are essentially true if we consider organs or organized being merely at the last term of their development. Then the rounded and circular forms predominate in all parts of the animal organization. The hone: are rounded; their heads most frequently globular.

enlar. The viscera are all more or less of a semielliptic form.

But passing to the earlier stages of development, the circular lines are lost. The spherical, circular, or globular forms do not exist; they are the result of the concourse of two or more lines, the juxta-position of which forms the curve, the cavity, the sinus, the hole, in a word all the parts which in the normal condition of the perfect animal are more or less circular. We thus arrive at a conclusion totally opposite to the preceding, that there is not, in the organization of animals and of man, a single line primitively circular. The form of the greater number of muscles results from the succession of an immense number of almost straight tibres implanted, like the feathers of a quill, upon a central stem. In the orbicular muscles, no single fibre makes the circuit of the muscle. The curve is produced by a succession of almost rectilinear fibres, forming a polygonal half ring; for the circular muscles are always the result of the union of two half muscles. So do we find the orbitar cavity formed by the junction of five bones. The acctubilum, the glenoid eavity of the scapula, that of the temporal bone, &c., all result from a similar mechrinism. Finally, we may instance the vertebral ring, forming an enclosure round the spinal marrow, and which is composed of four or six primitive lines, each constituting bony nuclei in the young embryo. In tracing the development of any organ, we find it originally composed of several fragments; its permanent form resulting from the association of these primitive materials, The form of the liver in man, and the mammifera results from the fusion into a single organ of the three or four lobes originally representing it. The prostate surrounding the root of the urethra is primitively composed of two, three, or four lobes. The kidney, which in the adult man constitutes a simple organ, is in the embryo represented by eight or ten separate kidneys, small but perfectly distinct, and which in the progress of development become blended or united together into a single

Thus are the organisms, at their commencement, in the very young embryo, composed of various fragments, divided and sub-divided ad infinitum, when we penetrate into their intimate nature. This is the first condition of their existence. The final end of developments is to unite together, and to associate these separate and disjointed parts. Now, this union of the elements of organisms takes place in two ways; either by association or by ineopporation. In association, the elements of organisms become joined together; in incorporation they do more than join, they become intimately united or blended together. These two conditions of organic transformation are not entirely analogons, for in association, the similar elements although joined together are separated by a dissimilar tissue, whilst in incorporation the similar elements are in immediate contact. It happens in some cases, through the progress of development, that organisms, in the first instance associated, become eventually united by incorporation; this change is, however, always preceded by the transformation of the dissimilar tissue which becomes homogenous, and which thus favours and compels incorporation. I will give an example:-The vertebral column is formed by the association of twenty-four vertebre, separated one from another by the inter position of a dissimilar fibro-cartilage, which remains up to extreme old age. During the whol course of natural life, these vertebra remain united by association and not by incorporation, sacrum which terminates the column inferiorly, is itself formed by five vertebræ, associated at first by the interposition of a similar fibro-cartilage But long before puberty, the fibro-cartilage becomes ossified, the five vertebræ become united by however, preserves the generic characters of it mingled elements. Thus the vertebral column is an associated organism, the sacrum an organism united by incorporation.

In union by association, the organisms preserve an independance which is but little affected by their composition. The muscular fibre, which by its multiplied associations constitutes muscles of such various forms and sizes, experiences from these associations no alteration in its characters; it is the same with the nervous system; the same also in a great measure, with the intimate structure of the osseous system. In incorporation, on the contrary, the elements which become united together lose by this fact a part of the character peculiar to them. The sacral vertebrae, for instance, in man, lose by incorporation, some of the characters of the adjoining landar vertebra; it follows, therefore, that the less the elements of organisms are associated together, the more they retain their original character, and that the more intimate their combination, the more their dissimilitude increases. This dissimilitude is, however, more apparent than real; for, by disassociating the elements of carganisms,—that is to say, by restoring to them the independance which they have lost by their union -we also restore them the characters masked by incorporation. Now association and incorporation being the two generating processes of the form of organs, it follows that the variations of form, however numerous or diversified, affect but slightly the nature or essence of the organism. An instance of this may be found in the serous membranes, which vary so much one from another in form and size, but are in their true nature so identical. All primitively represent a larg closed at all parts, a sac without an opening; all are destined to protect and envelope certain organs. The essence, the radical of every serous membrane is then the same—a bag; the accessory is the form here and there assumed so as to accommodate itself to the inequalities of the organs upon which it is spread. Thus we may readily conceive that the bag embracing the heart and the large vessels proceeding from its base, must have a much more complicated form than that surrounding the hing; or that the peritoneum, enveloping organs so various in configuration, extent, and size, must be very different in form to the tunica vaginalis testis, or the synovial membrane of a tendon.

The manner in which these various forms are produced is another point, upon which much speculation has been expended. Borden supposed them to be engendered by friction; Bichat, in refuting this idea, substituted that of the pre-existence of these membranes, as well as of the organs themselves. The true explanation, however, is, that they are formed conjointly with the organs; that each bag is at first separated from the organ which corresponds to it; that by the progress of development, the organ draws nearer to it; that it finally becomes ideced in contact with it, and gradually buried within its folds. We now perceive how the serous membranes borrow from the organs which they cover their various forms; but this diversity of form changes neither their structure nor function .- it disguises their resemblance, but does not after it. There is here, then, but a repetition of the common law; an organic element once given, nature varies and modifies in a thousand ways its combinations, by diversifying its mode of association. But before association, the elements of organisms are i olated and separated one from another, and it is only in this state of isolation and independence that they preserve the plentinde of their peculiar existence and distinctive characters. A striking example of this is furnished by the glandular system. In the earlier stages of the human embryo, the elements composing this system are texted divided and subdivided ad inflation; but by the progress of development, these elements become united and combined in various ways, prothe Lag bodies differing greatly in form and appearance. On tracing them, however, to their earliest formation, we find these glands reduced to a simple, \timitive element—the generator, as it were. et the whole glandular system. This element is a little bag endowed with a small duct, something

little bag, with some modifications, is universally found in the composition of glands: whether in the glandule solitarie of the intestines, or in the glandule agminate, conglobate, conglomerate, &c.

A remark which has doubtless struck anatomists, is, that the various processes adopted in anatomy for the purpose of infolding the structure of organisms, are merely directed towards reducing the organs to that primitive state of simplicity possessed by them at their first formation. Association has united and as it were confounded the elements entering into their composition; disassociation isolates and separates them anew; art acts in an inverse sense to nature. Whether we employ water or exposure to air; whether we employ destroy the cement binding together the constituent elements of organisms, and thus reduce nature to its primitive condition.

Association then tends to group together the constituent elements of the organisms, uniting one with another parts which have a common and independent action. This aggregation of the elements of organisms is expressed by the term organite. A few examples will render the meaning of this term intelligible. The vertebra is primitively composed of four points of ossification -two for the lateral processes, and two for the body; the occiput has eight, the sphenoid twelve: each of these points, considered separately, is an organite. The feetal kidney is frequently composed originally of six small kidneys, the associated tubes of each of which terminate in a distinct papilla; this small papilla, the tubes converging towards it and the body resulting from this association, constitute an organite for the kidney. So also with the testicle, the liver, the prostate, &c.

Incorporation, which we may consider as association in a more advanced stage, unites and groups together the organites, in the same way that as ociation groups and unites the constituent elements of parts; it brings into a state of unity the various organites constituting an organ. Thus it is by incorporation that the several points of ossification join together in forming a hone, or that the various organites of the prostate, the kidney, &c., form in the adult a body of so uniform an appearance. While on this subject I may remark, that the variations of form produced by the incorporation of organites are subjected to the same conditions as those resulting from the association of the elements of organisms. Thus the numerous varieties of teeth met with throughout vertebrated animals, are reducible to two dental organites-the incisor and the canine. The molares, so different in appearance to either of these, result entirely from the combination of these two dental radicals. We see, then, as an inevitable consequence, that neither the form nor the number of organs are absolute attributes of organization; we can only consider as such the constituent elements of organisms, and from the diversity of their combinations result those different aspects under which they are presented to the eyes of the ob-

We have previously shown, that the possibility of reducing organs to the primitive simplicity of their composition, formed one of the fundamental proofs of association. Is such the case with incorporation? Can we find in the adult traces of those organites, the incorporation of which has formed the organ? The examination of their solidescence discovers to us these new facts. We may perceive, on viewing the structure of their parts, that their consistence varies in different points, showing, in some measure, the nature of their composition: for by comparing the anatomy of the embryo with that of the adult, we shall observe that the most consistent parts correspond exactly to the organites which have become incorporated, so that we may find upon organs as many solidescent zone as there were primitively separate organites. This law becomes of great value in attempting the classification of those hones or remains belonging to animals long since extinct.

The parts which enter into the composition of full whole glandhlar system. This element is a fittle bag endowed with a small duct, something finilar to the gall bladder in miniature. This existence but also when association has already commenced their combination;

and they do not entirely lose this state of division until incorporation is accomplished. Each of these elements possesses a determinate form; in one place it is fibrous, in another it is composed of a bag closed at all points; sometimes this bag opens externally, at other times it is transformed into a small blind canal (as the cocum). These forms, special to each organic element, change and modify themselves by their association, sometimes assuming an elongated, sometimes a radiated, or even an elliptical form, in the compounds or organites to which they give rise. Lastly, incorporation in its turn, combines these organites, producing by their condition the normal forms presented by parts in their complete development. Thus the fixed point is the organic element, whilst the forms of its combinations may, and in fact do, offer infinite varieties. It is then association, of which incorporation is but a more advanced stage, which is the principle of the morphogeny of organisms; it unites that which was divided, and by uniting it engenders form. To be enabled more fully to appreciate these organogenic facts, we should compare them with the other hypotheses which have been broached. To what, in fact, was mor-To a simple development. The form of organs being considered invariable, the only difference acknowledged between the embryo and the adult was with regard to size. The cramium was considered but a vertebra dilated or expanded by the progress of its developments. The brain was regarded as the product of an efflorescence or shooting forward of the corpora pyramidalia and olivaria; the radiated fibres of which, traversing the grey or cortical substance, proceeded to form the hemispheres and commissures. Nothing could be more simple than this manner of considering organogeny, but it was found to be in manifest contradiction with facts. I will confine myself to one example: Take the brain of an animal with a double cerebellum, but with simple cerebral hemispheres; on examining its base, we find four corpora pyramidalia and four olivaria, the radiations of which traverse a double annular protuberance. Take, on the other hand, a brain with four cerebral hemispheres and a simple cerebellum, as in the genus polyops; the base presents, as in the normal state, but two corpora olivaria, two pyramidalia, and one annular protuberance. Now, if the cerebral lobes were but the offlorescence of the corpora pyramidalia and olivaria: if these bedies were really their roots, who does not perceive that when there exist, as in the first case, four corpora olivaria and four pyramidalia, traversing two annular protuberances, there should necessarily be developed four cerebral lobes ? still there are but two. And again, in the second case, would not the existence of four cerebral hemispheres necessarily require the presence of four corpora olivaria, four pyramidalia, and a double protuberance? protuberance is, however, simple, and we find but one corpus olivare and one pyramidale on each side. Is not this a most decisive contradiction to the above hypothesis? We shall, moreover, as we proceed, find this theory of organic preformations overwhelmed by the mass of facts accumulated against it.

FULIGORALL.-This is a preparation of soot and potassa, which is prepared in the following manner; -R canstic potassa, 20 grammes; powdered soot, 100 do.; distilled water, 2 do.; boil for an hour, cool, dilute with water to facilitate filtration; filter, evaporate, dry, in order to obtain the fuligokali in a black powder or in scales, and put it in dry and warm flasks. For sulphuretted fuligokali:-- R fuligokali, 60 grammes; canstie potassa, 14 do.; sulphur, 4 do.; heat the sulphur and the potassa with a little water; after the sulphur is dissolved, add the faligokali, evaporate, dry, &e. Fuligokali has been tried by M. Gibert on his patients at Hopital Saint-Lovis, both internally and externally. He made with 30 grammes of lead, and I or 2 grammes of fuligokali, a pommade in which he recognized resolutive, detersive and slightly stimulant

COURSE OF LECTURES ON THE THEORY AND PRACTICE OF MEDICINE.

Delivered by C. J. B. WILLLAMS, M.D., F.R.S., Professor of the Practice of Medicine, and of Climcal Medicine, at University Colline.

GENTLEMEN,-At our last meeting we were engaged with the changes occurring in connection with the vascular system, in inflammatory fever. But this is not the only system affected, for the nurves are involved also. There are changes observable, too, in the characters of the blood itself; -it becomes altered, so as to cause cupping and the existence of the buffy coat;-the nature and meaning of these alterations Lexplained to you on a former occasion. It has been supposed by some that the changes arising in the blood may be the cause of fever,-but this is unquestionably erroneous, seeing that the fever precedes the appearance of the builty coat. The builty coat may occur also without fever; this has frequently been noticed in cases of pregnancy. There is no doubt, however, that the blood, when thus changed, may keep up the irritation, and modify the character of the secretions. Too much fibrin in the blood produces general excitement in the system. When the fibrin is diseased, a cachectic state is sure to supervene. The existence of pus in the circulation will be attended with heetic fever. Other matters may also cause similar symptoms, such as sugar, in diabetes,—the poisonous matter in cases of gangrene is also, as we before noticed, pervaded through the system. The blood, again, is the medium through which the critical discharges, attendant upon the resolution of fevers, are effected, When inflammatory fever arises from constitutional causes, as cold, the symptoms bear a very strong resemblance to idionathic fever.-thus, the shivering, depression, loss of appetite, &c., would leave us quite uncertain whether an idiopathic fever, or some local inflammation, was about to follow. In the former kind of fever the secement and nervous systems are affected in a much more serious degree than in simple inflammatory fever, There are few cases in which the latter species of derangement proceeds to a greater extent than in inflammation of the testieles. The fever is generally proportioned to the amount of local intlammation present; but there are exceptions even here. In tonsillitis, for example, there is very frequently rather considerable preceding fever, although the inflammation itself may be comparatively trifling. The fever usually runs high in young and plethoric subjects, and in those who are easily excitable; it is also rather severe in persons who are not very susceptible of its influence, but still in whom it has been determined. The fever is low in old people, and in those who possess little blood and are phlegmatic. Its intensity is much modified by the part which is the seat of inflammation. It is high, for example, in fibrous and serous membranes, as in the various fascire, and in the plenra and peritoneum. It is high, also, in phlegmonous inflammation. In inflammation of the stomach it has a rather low tendency. When mucous membranes are affected, the fever assumes a sort of mixed character—also, when cellular tissue is affected, or when the mischief is seated in large joints, &c.,—this depends in a great measure upon the effects of the products upon the secretions. In persons who have been habituated to hard drinking, inflammation is generally of a low type; also in cases where violent shocks have occurred; and, also, in cases arising from the influence of animal poisons, -all these have a tendency to depress. We thus see that much depends upon the previous habits of the patient, upon the seat of the inflammation, and upon the nature of the causes that have determined its occurrence,

We now proceed to a brief consideration of the local symptoms of inflammation—and sometimes these precede the constitutional, in cases where the cause has been local. It is not at all uncommon for the constitutional symptoms to mask, as it were, for a time the development of the local ones, so that the latter become much more manifest as the former decline. The first of the local phenomena that we may notice, is reduces—this, as well as heat, will be in proportion to the vascularity of the tissue; that is to say, the more vascular the

fissue is in its natural state, the greater amount of reduess it will exhibit when subjected to inflammation, -thus we find the skin (not the epidermis, of course) becoming very red when inflamed. The redness is also sometimes, intensely marked in inflammation of mucous membranes,—it disappears, generally, after death. I told you, before, that the reduces is due to the increase and tortuosity of the vessels; it is owing, also, in many cases, to the existence of patches of extravasated blood. This bemorrhagic reduces is distinguished from simple inflammatory reducss, by the former being usually found in the form of a patch; whereas, in inflammation, the blood being contained within the vessels gives rise to a stricted appearance. Again, the redness that is caused by inflammation or congestion, may be temporarily removed by pressure, but this exerts no influence in altering the colour which is produced by extravasation. The redness observed in serous membranes, as a result of inflammation, is much less intense than in mucous membranes—the dots that are seen generally exist in the vessels of the subserous fissue. In fibrons tissues the vessels are still less distinct. In parenchymata, the reduces is considerable. The colour is greatest during the time of determination and congestion, for, when more advanced, and effusion has taken place, the vessels become relieved, and the redness is diminished. Another pretty constant result of inflammatory action, is swelling, which is commonly in proportion to the complexity of the tissue in which the inflammation occurs. It arises, in the earlier stages, from the size of the yessels, and afterwards from the effusion that is produced—this is well seen in cases of crysipelas. The special seats of swelling are the cellular tissue and parenchymata; these, you will remember, are the textures in which pain is generally at its minimum, so that pain and swelling may be said to exist in inverse proportions. Swelling is very rarely observed in scrous membranes, for all the effusion that their inflammation produces, takes place within their eavities. some cases, only parts of organs become swollenin others, the whole substance is enlarged, as in the liver, and in glands generally, especially the lymphatics. Swelling in the skin is well seen in urticaria. It becomes very great in the eye-lids, scrotum, and also in the rima glottidis; in fact, in all loose tissues. Another phenomenon is heatthis I have before alluded. I told you that it is doubtful whether it is produced in the inflamed part, or whether it is carried there by the increased quantity of blood. Hunter found the latter method to hold good in a case of hydrocele. in which he noticed that the temperature of the scrotum, and that in the axilla, were precisely equal. The heat is easily ascertained by means of a small thermometer. The next symptom of mflammation is pain —arising from exalted sensibility or from the pressure of distension. degree, it is only itching. The pain will be much modified by the nature of the tissue in which the inflammation exists-inflammation of a nerve, for example, will, of course, be very painful. degree of pain will depend much upon the tension that is produced in parts-thus, any effusion taking place under a strong fascia, which, not yielding, is attended with much tension, will, of necessity, cause great pain; this is the case in tendinous structures generally. Much suffering is experienced when inflammation attacks the periosteum. Again, in parts where there is much distension, as in inflammatory toothache, great pain is felt, on account of the very unyielding nature of the surrounding structure. Also, in inflamma-tion of the internal ear, when effusion takes place. But in loose parts, where the tissue is of such a character as to admit of easy distension, it will be naturally expected that much less pain should accompany the inflammatory process. In the intes-tinal canal, for instance, there may be inflammation with very little pain; or, indeed, without any actual pain at all, so long as the parts are kept in a state of rest, and not allowed to suffer pressure; but then, so soon as food is allowed to pass along the inflamed portion, very great distress may be In parenchymata, there is not, occasioned. usually, much pain attendant on inflammation. In

-sometimes being consid-rable, and sometimes very slight; it is generally greater in them than in mucous membranes, because the substance of the latter is much more yielding, as in parenchymata, there is little tension. Where the sensibility is great, pain may be experienced on the application of pressure over the inflamed part, although, without pressure, no suffering may have been complained of. In addition to the general results and features of inflammation, as occurring in the various classes of tissue, to which I have now briefly called your attention, you will be prepared to expect that there should also be some special modifications produced in connection with the proper fractions of particular organs, and these may be called fractional symptoms; thus, when the heart (or rather the pericardium) is the sent of inflammation, we find the action of the organ materially increased, giving rise to palpitation afterwards, when the inflammation has continued some time, and fluid is effused into the pericardium, the action of the heart becomes diminished and oppressed, and the whole circulating system is affected in proportion. Again, in inflummention of the lungs, the functions of respiration will, of course, be interfered with to a greater or less amount, and it is this functional impairment that renders the disease so formidable. In many cases of inflammation, the effects are not confined to the precise limits of the local mischief, but ather parts, at some distance from the inflamed organ, suffer also, and present what are called sympathetic indications, or symptoms—thus, inflammation in the liver, is often accompanied by pains in the shoulders, especially under the right shoulder. Another example of sympathy is, the retraction of the testis that occurs in inflammation of the kidneys; also the pain, affecting the glans penis in eases of inflammation of the bladder. Sympathy is also manifested by the occurrence of vomiting in many cases where parts at a distance from the stomach are the seats of injury or disease. I must here eaution you against coming to the conclusion that inflammation is present in all cases where pain is complained of, and also against concluding that inflammation is not present, because pain is absent. Nothing is more common than to find great pain arising from what is termed icritation, in nervous subjects, without the least trace of anything like inflammation being discoverable and, on the other hand, we not unfrequently see cases where inflammation does exist, but where, if we trusted to the symptoms of pain alone, as indieating the inflammation, we should be led into the most glaring and daugerous mistakes. It is in torpid subjects, whose nervous system is unusually obtuse, that we generally find lateat inflammations occurring; i.e., inflammation, unattended with the ordinary symptoms of its existence. In persons, who are highly sensitive, or, in other words, are ucrrous, the very slightest causes may give rise to excessive pain, without the presence of inflammation,-these cases are, as a general rule, easily distinguished from true inflammations, by the absence, in the former cases, of heat, fulness of pulse, and the ordinary constitutional symptoms that inflammation is known to produce. When inflaminflammation is known to produce. mation cludes our touch and vision, we may be greatly aided by sound-thus, if we wish to ascertain the size of the liver, as affected by alterations in the quantity of blood contained in it, we may do so by the use of percussion, which will indicate, to an experienced person, the precise dimensions, The changes, sensible to the ear, that are effected in the organs of the chest, especially by inflammation, &c., will be fully considered at a future period. I might have given you other examples of the alteration in the special functions of particular parts, such as diarrhora in enteritis-constipation in peritonitis—incontinence of urine in cystitis spasms in inflammation of the spinal chord—and delirium and coma in phrenitis. A good exemplification of sympathetic affection is found in the reference of pain to the rectum, constituting tenesmus, in cases of inflammation of the colon.

but then, so soon as food is allowed to pass along the inflamed portion, very great distress may be occasioned. In parenchymata, there is not, usually, much pain attendant on inflammation. In serous membranes, the degree of pain is variable

IRIVATE COURSE OF OPERATIVE SURGERY.

B) J. NOTHINGHAM, Liq., Member of the Local Collinguity of Lendon.

LICTURE IV.

HITHERTO our observations relate chiefly to incisions made from without inwards; but we not unfrequently have to make them in the opposite direction, or from within outwards.

In some few operations special incisions of this kind are employed, upon which a great deal depends,—as in dividing the stricture in operations for strangulated heraia, or in the employment of the lithotome cache, when this is chosen for the operation for stone; or in that of the curved histoary used for dividing the sphineter ani in cases of fistula, the edge and point of which are covered by a sliding guard when the instrument is first introduced; but such incisions, as well as the instruments used in making them, will be noticed in connection with the respective operations for which they are required, and we have here to speak chiefly of the more common incisions made from within ontwards, with or without the aid of a director.

Before opening what are called sinuses we should ascertain the direction and extent of the chief canal, as well as of its principal branches, it the probe or director will easily enter the latter, before taking up the bistomy; and it is also desirable to notice whether or no the complete division of every part of the sinus can be effected without injury to any artery, vein, herve, or other important structure, and to modify our proceeding, with a view of leaving them intact.

ing, with a view of leaving them infact.

Where an external opening exists into which the director may be introduced, this instrument is passed through it and pushed to the opposite extremity of the sinus; and then the bistoury, its back resting in the groove of the director, is moved on as far as the latter will carry it. The heel of the bistoury may now be depressed, and its point made to press against the corresponding portion of the integument, through which it is pushed, and the structures in front of it may next be divided by sawing motions of the in-trument, or by suddenly drawing it through them.

In some cases the point of the bistoury may be guarded by a bit of bee's wax stuck upon it, or the probe pointed bistoury may be used instead of the one that is sharp at the extremity: and here, as the instrument is not driven through the integrument at the farther end of the cinus, its heel must be raised, and in this way its edge made to divide all that is requisite by pressing against the structures between the two extremities of the canal to be haid open.

In laying open some old fishilous canals it is well to be provided with a strong Fishorry, or one firm and stiff in the blade; for the density of the sides and textures around such canals is often much greater than that of the neighbouring parts, and will occasionally try the strength of an ordinary instrument.

The opening of canals, such as we now allude to, may require to be made upwards, downwards, to the right hand, or to the left; but the surgeon may generally place himself in such position with regard to the parts to be divided as to effect all that is required to be done, and that without any particular difficulty.

We are occasionally recommended to divide tayers of cellular membrane raised over the director, by passing the bi-teary through them with its edge downward, or turned towards the grocker of the director, so that by every touch the edge of the instrument is being spealed and worn off by the iron surface it falls upon. If a man's hand be se unsteady that he find the director a support to him. he may be allowed it as an indulgence; for in such case the bistonry might perhaps have been pushed too far, every now and their endangering parts beyond the bounds of the cellular tissue to be cut through, but in other circum-tances we would recommend, that a surgeon should leadle his entting instruments with as much respect for their edges as a joiner would have, who is not caught shaping out a piece of wood with a chosel on the surface of a blacksmith's anvil, and is very apt to

complain of the old timber he works upon if he find that its hidden uails are spoiling his saw,

Turn the back of the instrument, then to the growe of the director, and have mercy upon its edge, and upon the teeth of the bystanders. In cases where very narrow sinuses are met with—so that a director or histoury of ordinary size can hardly be introduced without at once entting or hacerating the parts—a very small silver wire may be passed into the canal, when a delicate histoury is made to follow, the histoury having a groove on its back, by which it is kept in contact with the wire; the approximation being further ensured by a little bridge crossing the groove, under which the wire was made to glide.

There are instruments made for instrument-makers, and there are instruments made for surgeons,—the latter to be used, the former to be admired. Perhaps the bistoury with a bridge on its back is of the admirable class, and may be regarded as belonging to matters of taste. I remember, however, that Listeane would not, on any account, be without such a bistoury in his pocket-case, for I rather think he invented it, as it was spoken of by all his followers, and invariably mentioned by the private teachers of operative surgery, who becured under his anspices.

In cases where two or more incisions meet at either of their extremities, or cross each other as in the crucial incision, the encheed flaps or angles of integument have to be raised by dissection, for which good finger nails, forceps, and a scalpel or bistomy are required.

In raising up a piece of integument, we should aim at following the layer of subjacent cellular tissue, not too near the integument, nor yet too near the fascia below, but along what we might call the middle of the layer of reticular membrane, where its net-work is the most loose; such dissection should consist of incisions of the cellular membrane, steering clear of the parts above and below it, which will be much facilitated—if we have the aid of a good assistant, who constantly renders the parts visible to the surgeon—by clearing away the blood with a sponge as fast as it mozes from the divided vessels.

In raising flaps of moderate size (by dissection) the teaches of the bistoury may be often made in both directions; first, the edge coming towards the operator, afterwards going away from him—the instrument being turned round at that extremity of the incision which is next to the surgeon. This proceeding is more graceful than repeating the first tunch of the knife over and over in the same direction, and is more especially applicable after the crucial or the **V** or **T** incision; have been previously made. Where the texture of the cellular membrane is very loose, the trouble of dissection may be shortened and the pain bessened, by drawing the portion of integument to be raised towards one side, and compleying the finger hail or the handle of the scalpel to break through the stretched cellular structure on the other.

In cases where adhesion has taken place, and where (as far as the surgeon is concerned) the reticular membrane might be said to be lost or obliterated, the proceedings with the scalpel must be more careful, and the separate incisions or touches of the instrument will generally require to be shorter.

In some of the operations for hernig, an extraordinary degree of care is required in the employment of the bistoury; the sac must be approached with great caution, as well as the intestine within it a good finger nails, a delicate and educated sense of touch, dissecting forceps with points, that seize easily and hold firmly, will assist as materially in such operations; but to prepare himself more completely for them, the young enreeon should practice that mode of raising lats of cellular membrane with the forceps, and then passing the bistoury horizontally through the texture so railed, which manceuvre is required especially on these occasions; for if the sense of touch be tolerably good, if the surgeon can with the aid of it detect the gliding motion of one layer of ceron, membrane within the fold of another, and discover the occusional presence of fluid between them, supposing this not to be great enough in quantity to separate

be easy to avoid injuring the latter; the main difficulty being to know where we have really arrived at the sac, which requires to be opened; so that, as far as speaking of this particular mode of employing the bistoury is concerned, little need be said beyond a hint about attaining the habit of raising delicate fibres or layers of membrane with the point of the forceps, and then passing the bistoury carefully under the extremity of the other instrument.

We now proceed to offer a few remarks on the subject of punctures, which, to speak of them in a very general way, may be made with large or with small instruments; indeed, some of the instruments made for this purpose are so small as to shield the patient from any injury on almost every occasion, as well as to protect the surgeon from any suspicion of having committed himself—a sort of thing which occasionally happens where a larger instrument has been inconsiderately plunged into a tumour of doubtful character.

The first consideration, then, to be especially attended to, before employing any kind of puncture, is the accurate diagnosis respecting the real state of the parts and the peculiar character of the malady affecting them; and, fortunately, the differences between timor, abscess, and anemism, &c, are generally such as to enable one to decide where puncture is perfectly safe, and where it is better to avoid it; yet cases do now and then occur, where such diagnosis is embarrassed; and if, on such occasions, it is impossible, without doubt, to decide, and yet absolutely necessary to act, we had better take the benefit and protection of two opinions, which, in such circumstances, afford the best excuse for a mistake, should this by any chance occur.

The needle, bistoury, lancet and trocar, are amongst the principal instruments used in puncturing; when the needle is employed, the name acommetination is admissible on account of the instrument used.

In employing the needle, we should first notice, whether its point be sharp, and also remember, that it must not be so small and weak as to bend under the pressure required to make it pierce the surface and enter the parts to be punctured, or explored; nor so large and thick as to make an aperture in the surface or parts beneath which, might, under any circumstances, be attended with risk.

We may easily suppose that there can be no great difficulty about introducing a needle into any soft part of the body, nor would it be worth the trouble to offer any particular rules for the guidance of so simple an operation. The needle have be introduced either perpendicular to the surface, or with any inclination to it, that the position and condition of parts may require; and should there be any difficulty connected with the density of the structures, or the weakness of the instrument to be overcome, it is better to seize the latter a little nearer to the point than is requisite where the needle enters with little pressure.

Where acupuncturation is employed for the relief of rhemmatic or neuralgic complaints, the needles are generally pushed to a greater depth, and require to have such heads of scaling wax, or such handles attached to them as may enable us to withdraw them without the help of any other instrument.

In making punctures with the bistomy, their depth may be measured by the position which the middle finger takes on the right-hand-side of the blade of the instrument; they may be perpendicular to the surface or inclined to it; the latter direction being more particularly required where it is thought fit that the external and deeper parts of the puncture should not correspond, or that the opening may be in any way rendered valvular.

Every one is acquainted with the ordinary method of holding the black turned to a right angle with the baft.

occasions; for if the sense of touch be releasibly good, if the surgeon can with the aid of it detect the eliding motion of one layer of error membrane within the fold of another, and discover the occasional presence of fluid between them, supposing this not to be great enough in quantity to separate widely the sie and the intestines, it will generally

the lancet as well as a puncture, the instrument is carried farther on, and then raised at the licel.

Certain precautions are required in the employment of the trocar, which it is easy to forget or to overlook; its introduction should be rendered easy, and the after exit of the fluid not prevented by accidents which have to be guarded against during the operation.

In eases of ascites, where the trocar has to pass brough the linea alba, or other part of the abdominal parietes, its introduction will often be much facilitated by previously making a small incision in the integument with the point of a bistonry or lancet; the trocar is they easily glided through the fascile and other less resisting structures, and it does not enter the peritoneal cavity with a jerk, or endanger the viscera beyond it. But, suppose that the instrument has a stunted or not a very sharp point, that it is pressed upon the resisting linea allia without a previous touch of the lancet the parts give way to it in a little time, and it often enters suddenly, under the influence of the force exerted and in a manner that the band of the operator does not seem nicely to measure.

Care should be taken that the further extremity of the cannla is not stopped up by contact with the surface of any internal organ, which might prevent the entrance of the fluid we wish to evacuate the introduction of a director, or some such instrument, through the canula, will answer this purpose; or a second smaller tube, may after the withdrawal of the treear, be glided into the eanula which having apertures in its sides near the further extremity will allow the fluid to pass through them, the extremity being rounded like

that of a eatheter. We cannot fail to understand how the trocar is to be handled at the time of its introduction; the handle of it takes its place in the palm of the right hand of the surgeon, who steadies the canula upon it by the pressure of his index finger, and at the same time directs the point of the instrument to the part it is about to transfix; the trocar is then pressed onward, and directed by the hand. As soon as we have the sensation that the instrument has entered the cavity, it is directed to the canula,

and the surface through which it passes are steaded with the fingers of the left hand, and the trocar drawn out with the right,

Every one who desires to be adroit in the surgical manipulation of instruments, such as the bistoury, lancet, trocar, or seissors, must take every possible opportunity of practising with them on the dead subject; and as the dead bodies of the lower animals,-which are easily obtained,-will answer many useful purposes connected with this pursuit, we are not to complain of any want of those materials which are essential to our preliminary labours.

REVIEWS.

On Injuries of the Head Affecting the Brain. By G. J. GUTHRIE, F. R. S., Surgeon to the Westminster Hospital, Opthalmic Hospital, &c. &c. Churchill.

(Concluded from page 109.)

SECOND NOTICE.

In our last number we made some general remarks on the character of this work, and shall now, according to our promise, place a more extended outline of the volume before our readers.

The subject of which our author treats may he subjected to a two-fold division: -1st. Those injuries of the head that produce concussian of the brain; and 2d. Those which produce compression, or irritation, of that organ. As systematic arrangement of the diseases of which he treats seems not to have been the object of our author, the subject is discussed not in the order above indicated, although the undercurrent of arrangement which pervades the volume will permit of such a classification. The whole subject of "concussion" is discussed though they be; yet we have no hesitation in uneasiness. The pulse rose to 100, became re-

saying that the substance of all that is known, or worth knowing, on the subject, is given in that short space. In the remaining one hundred and twenty pages the subject of "com-pression" is treated of, both as regards principle and practice; and we have munerous interesting cases of this affection resulting directly from depressed bone, extravasated blood, foreign bodies-such as balls lodging in the brain; or indirectly produced from injuries of the scalp, from crysipelas, or from wounds or operations inducing suppuration under the scull, or fungous growths, or cerebral protrusions through artificial openings in the cra-

The acknowledged difficulty in forming a just prognosis and diagnosis of all such injuries has induced our author to recur to the physiology of the nervous system, in explanation of the phenomena of lesions of different parts of the brain. Our author justly makes this the starting point of his inquiry, and has given a condensed statement of all the facts which experimental physiology has unfolded, which hear upon this subject. Yet much light cannot be elicited from this source. General conclusions have been deduced regarding the ecrebrum, cerebellum, medulla oblongata, and spinal chord, which are valuable so far as they go, and are important, regarding the general or collective functions of each of these parts. Thus it is established that the cerebrum is the seat of intellect, memory, and sensation, and that injuries of the cerebrum affect all these powers; that the ecrebellium is the mo decator of the movements of the system; that the medulla oblongata is the seat of respiration, and that the spinal chord, with the nerves attached,-the incident, sensitive, and reflex motive nerves,-preside over the acts of ingestion and egestion, retention and exclusion. These are highly valuable facts, and capable of important applications to surgery and medicine, and tend to make us regret that the means that have brought these general facts to light have been ineffective, regarding the functions of the different portions or subdivi-sions of the cerebrum. Thus enlightened by physiology, our author leads us to the subject of concussion of the brain, regarding the proximate cause of which much obscurity exists. In some instances a bruised, in others a lacerated, state of the brain has been found; but, as in others, no apparent morbid state existed, it is probable that the morbid condition to which the term concussion has been applied exists in a molecular change, which the microscope would be the fit instrument to discover. The symptoms of concussion, which are very correctly and vividly described by our author, may be said essentially to consist in a greater or less insensibility—in a diminished state of the circulation-in irregular, though not generally stertorous, breathing-and in a medium, or more frequently, contracted state of the pupil. When death is not the immediate or speedy result of the accident, reaction takes place, and the patient is liable to be cut off by cerebral inflammation. The following mild ease will impart a very correct idea of the symptoms and of the proper treatment :-

Frederick Paris, aged 27, a shoemaker, fell from a scatfold 25 feet high, and was admitted into the Westminster Hospital on the 3rd of August at H o'clock, two hours after the accident, apparently insensible, the skin clammy and cold, pupils contracted, pulse feeble and irregular, respiration quickened, no relaxation of the sphineters. The head was shaved in order to discover more readily any external injury, but none appeared of consoquence, although the scalp could not bear to be tou hed without the patient showing some signs of

gular and fuller towards the evening. He spoke incoherently from time to time. A cold lotion was applied to the head. Calonel and colocynth, salts and senna were administered, and, in the evening, he was bled to 12 owners with the most beneficial effect; he slept, and awoke next morning quite collected, and from this time he gradually recovered, with only a slight giddiness occurring occasionally.

We perfectly agree with Mr. Guthric, that when the symptoms of reaction set in we should not wait the effects of blisters and purgation, but should have recourse immediately to the lancet; and we are of opinion that if the lancet fail in effecting a cure, no other means can be depended upon. Mr. Guthrie has done good service to surgery by inculcating, both by precept and example, vigorous de-pletion in these cases; and the result of his practice, as given in the work before us, amply justifies the procedure.

After some less important cases of insensibility, arising from intoxication, mimicking the symptoms of concussion and the supervention of mania upon injuries of the head, our author proceeds to compression of the brain, and has adduced a body of interesting facts from the wide field of his experience, illustrative of almost every variety and modification of such affections. Is the brain compressible, or susceptible of being compressed into a smaller space, is a question not yet decided by physiologists. Our author enters upon the question, and after referring to the various opinions entertained of the intimate structure of the fibres of the brain, leaves the matter where he found it, or rather shirks the question upon that ground; but from the phenomena attending syncope and sanguineous congestion of the brain, thinks that compression may take place, or, at all events, that more blood may exist at one time within the cranium than at another. On this last point we entirely coincide with our author, and it appears to us of no practical moment whether the diminution arise from an absence of blood, or from an abnormal condensation of the cerebral substance. Whatever may be the proximate cause of compression, or state of the brain, in this affection, there cannot be a doubt that the mechanical cause producing it, is adequate to tell both upon the nervous fibre and upon the blood circulating in the viscus,-and thus to have a two-fold influence upon the function of the cerebral organ. But we must hasten to the

more surgical part of our subject. The symptoms of compression from extrapasuled blood are fully and accurately given-a remark that applies to the symptoms of the

other kinds of compression, or from other causes. Our author has viewed his subject here, more in detail than in a general or comprehensive manner. We think there are symptoms common to compression of the brain, from whatever cause, and others that appertain to the peculiar cause or causes exciting the compression. The symptoms indicative of compression, generally, are insensibility, accompanied with paralysis, convulsions, or twitchings of some parts-dilated pupil, slow pulse, and stertorous breathing, a group of symptoms easily distinguishable from those of concussion, and referable exclusively to simple compression. The symptoms again, indicative of particular rauses of compression, such as fractured and depressed scull, extravasated blood, foreign bodies lodged within the brain, or under the cranium, must be looked for in the history of the case- in the external peculiarities generally of the case rather than in its essential characters. Our author very properly notices the paralysis or convulsions that arise in the opposite side of the body from that of the injury; and attributes the symptom, along with the numerous authorities he quotes, to the decussation of the fibres of the medulla oblongata. But all the fibres of the medulla oblongata do not cross; and how does it happen that compression should produce in one paralysis, and in another convulsions? Our author has not attempted to solve these problems. We think we can. The very circumstance that all the fibres of the medalla oblongata do not decussate, will enable us to explain how the paralysis or convulsions should sometimes be on the same side, at other times on the opposite side from that of the cerebral lesion; and with regard to the supervention of paralysis at one time, and convulsions at another from the same cause, we must recollect, that the fibres of the brain may be affected in a two-fold manner by the compressing cause. The compressing cause may simply irritate the fibres, with which it is in contact, and thus cause convulsions, or the compression may be more intense when paralysis will supervene. Or we may have both paralysis and convulsions existing simultaneon-ly from various degrees of compression induced in different contiguous fibres of the brain: or, lastly, we may have paralysis and convulsions alternately in the same unscles from varying degrees of compression on the same cerebral fibres. This last may take place from the varying state of the circulation of the brain modifying the condition of the compressing cause, and consequently with the corresponding results. But we must proceed to the practical details of the author.

Compression of the brain, accompanied with fracture of the cranium in all its modifications and details constitutes the largest portion of the work before us, and we can strongly recommend this part of the work to the careful perusal of our readers. As fractures of the cranium are in themselves not more dangerous than fractures in any other bone (except in so for as such fracture may indirectly or directly affect the brain), our author urges the propricty of not wantonly exposing the bone in our anxiety to ascertain the existence or nonexistence of a fracture; for the existence of a fracture does not influence the treatment, unless the case is so argent as to require or demand the application of the trephine. The following case illustrates the treatment to be followed, whether the fracture is apparent or

A soldier, partly in liquor, received a blow from a spade, in Lisbon, in the beginning of 1813, which cut the upper part of the head across the sagittal suture, and rendered him senseless. He soon recovered, and a slight fissure or fracture, without depression, was discovered on his being brought to the Ustrella Hospital. As there were no symptoms indicative of mischief, I desired that his head might be shaved, and the divided parts brought together by sticking plaster; that the head should be kept raised, wet, and cold; that he should be bled to 24 oances, purged, starved, and kept quiet in a dark room. The next day he said be had slept well, but that his head felt painful, as if something tight was ied around it. small and hard; bowels not open. Blood was taken from the arm to the amount of 10 ounces, when he appeared ready to faint. Calomel and Jalap, followed by Infus. Senne cum Magnes. Sulphate, were given, and acted well, and he was greatly relieved. The calonicl was continued every ix hours. In the evening, however, the pain and tightness of the head returned, with a pulse of 110, hard and full, and were again reinoved by the losof 24 oz. of blood. He remained ersy until the evening of the next or third day, when the pulse quickened to 120, became small and lard, and he complained of severe pain in

it must be subdued; he was therefore bled until he fainted, 40 ounces being taken away. This entirely relieved him, and calomel, jalap, seuma and salts were again administered, with great effect. On the fourth day he was easy, the pulse 94, soft and full, the month being tender from the mercury. The wound did not heal by adhesion, but by granulation; and under the continuance of the starving and purging system he gradually got well without any more bad symptoms, having been saved by the loss of 128 ounces of blood in three days.

When the fracture is complicated, however, with laceration of the middle meningeal artery, or depression of the scull, and the symptoms continue urgent, after the requisite depletory means have been pushed to the full extent, the patient should be trepanned. This is the rule of practice-a rule which gives full effect to depletion, both as a means of preventing evil consequences as well as of cure; and which sanctions the application of the trephine only when that application is imperiously demanded The depressed fractures that usually demand the application of the trephine are those of adults, more particularly those in which the depressed portions present rough and angular projections to the dura mater, or in which spiculae of bone penetrate the dura mater or brain, or in which the source of irritation cannot be removed without the application of the instrument. There is one kind of depressed fracture to which we have time only to allude. but which shows the difficulties that surround the subject. We mean depressions of the inner table, without fracture of the outer plate of the scull. After collecting the most important cases of this kind on record, our author sums up the practice to be adopted in the following words :-

The regords of eighteen centuries have produced but little information on this most interesting subject; and if the cases were collected which I have overlooked, as well as those which have been altogether omitted. I apprehend that very little more would be gained. I therefore think it safe and reasonable to come to the conclusion, that although these things have happened, they will rarely occur again. I have never, in the great number of broken heads I have had under my care. on many different and grand occasions, actually known the inner table to be separated from the outer, without positive marks of an injury having been inflicted on the bone or pericranium, however slight that injury may have been; and although it is not possible to doubt the fact of fracture of the inner table having occurred, it is very desirable in a practical point of view not to bear it in mind; for if a surgeon should be prepossessed with the idea that the inner table might be so readily fractured, and separated from the diploc placed between it and the outer table, and thus cause irritation or pressure on the brain, few persons who had received a knock on the head, followed by any serious symptoms, without fracture or depression, would escape the trephine, and the worst practic would be again established. An operation should never, then, be performed under the expectation that such an accident may have happened, unless it is apparently required by the urgency of the symptoms indicating compression or irritation of the brain, which cannot be relieved by other

4 by no means intend to imply by these remarks that a blow on the head will not frequently detach the dura mater from the inner table by rupturing its vessels, and thus give rise to compression or irritation of the brain from the effusion of blood or the formation of matter, or that the inner table may not from the same cause become diseased, and be the cause of ulterior mischief; but these are altogether different states of injury to that which I have just noticed, and require special considera-

It is not generally known, we believe, that

hone, but as has been shown by Mr. Guthrie (and we believe for the first time), is uniformly attended with a fracture or a splintering, with depression of the inner plate, and requires the application of the trephine. The following passage illustrates the practice to be pursued in such cases :—

A British soldier received a wound at the affair of El Boden, in front of Cindad Rodrigo, from a sword on the top of the head, and accompanied me to Sahugal, on the retreat of the army. The bone was apparently only cut through, yet the inner table was depressed, and telt rugged when examined with the probe. The symptoms of inflammation increasing on the fourth day, and not being relieved by copious bleeding, I removed a central portion of the cut bone by one large crown of the trophine, and took away several small pieces which were sticking into the dura mater, after which all the symptoms gradually disap-

As these cases at first are often attended with no serious or alarming consequences, but are almost uniformly fatal if not relieved by operation, a question arises, when should the operation be performed? The question is one of some difficulty. The general rule of practice is not to operate till some symptom of danger arise; and this rule of practice is, we think, without exception. The practice of operating to prevent bad consequences, though sauctioned by the high authority of Pott, is now justly exploded. If our author in the following passage wishes to inculcate a revival of the practice of Pott we would feel it our duty to oppose and denounce the practice in the most positive manner; but as we know from the whole tenour of the work that this cannot be the meaning of our author, we are bound to apply the practice to cases of a particular kind; and we think he has expressed himself too strongly and unguardedly even regarding these; for though it is a very proper thing to remove pieces of bone that are sticking in the membranes of the brain, yet, as a general rule, it is also a very improper thing to trepan when no symptoms exist demanding the operation. We must take for granted then, that in the following passage the symptoms are supposed to be urgent, and the practice inculcated will then be sound and unexceptionable :-

It appears to me that too much stress is laid upon a difference which is supposed to exist in the danger of trephining a man on the first or on the seventh day after an accident, and that an error may be committed in believing that the trephine is a more dangerous instrument on the first day than on the seventh. The question here is not whether the man is to be trephined or not? but which will be the best and safest day or time to do the operation? I do not besitate to say the first day. I believe the violence to be greater when done on parts already in a state of inflammation than when they are sound. I am quite satisfied, that when the inner table is sticking through the membrane, and into the brain itself, the individual will in most cases ultimately die miserably of the accident, if not relieved by art; and that it is less safe to let him designedly run the certain risk of cerebral irritation, which, when once excited, is often indomitable, than to remove the cause, and so endeavour to prevent the evil.

The remaining part of the work is allotted to injuries of the scalp, and to the consequences of such injuries, as crysipelas and suppurations externally or internally to the cranium. Collections of pus under the cranium constitute some of the most important and difficult cases in surgery. The difficulty, however, is not regarding the principles of treatment, for those have long been established, and may be said to consist in preventing, if possible, by suitable anti-phlogistic means, the occurrence of such mischief, and when pus does form, of evacuthe load. It was evident that inflammation of the brain, or its membranes, had commenced, and that not produce a simple incised would of the ating it without delay. The difficulty exists

when there is no guide externally to the sea of the evil; shall we, then, perforate the seull at random, or shall we not perforate at all? The question is not mooted by our author, yet it is a very important one, and which engaged much of the attention of the older surgeons. Dease and Pott inculcate the evacuation of the pus by every means in our power, and we think the practice commendable. The lodgment of pus within the cranium is incompatible with life. To refrain from operating is to consign the patient to inevitable destruction; the operation, therefore, can do no harm, and may be productive of incalculable benefit. The same reasoning applies to the removal of matter from under the dura mater, by puncturing or incising that membrane, or even, if need be, of plunging the lancet into the brain. The following cases, detailed by our author himself, will show the value of this line of practice:-

Absalom Loriner, of the 12nd regiment, was wounded by a musket-ball on the 10th of April, 1814, at the battle of Toulouse, which carried away a small portion of the sealp, just above the right temple, fracturing the hone slightly, but without any depression. No symptoms occurred demanding more than the ordinary attention for the first formight, during which period he had been bled once, purged and kept on low diet. On the 25th he complained of pain in his head around the wound, and shooting to the back part; pulse 60, pupils dilated. An incision being made to the bone, the perieranium was found detached, the bone fractured, but without any obvious depression. V. S. ad 3xx, calomel and colocyuth; and, as the pain continued, the bleeding was repeated in the evening .- 26th, Pain in the head greatly relieved; pulse 60; bowels torpid. Ten ounces of blood were taken from the temporal artery, the calomel and colocynth, salts and senna were repeated. On the morning of the 29th, the symptoms of compression having increased, the trephine was had recourse to, and the fractured portion of bone was removed; a layer of coagulated blood was found on the dura mater, which puffed up into the opening. In the evening he became con-vulsed, the pulse intermitted, and he died. On examination, a large abscess was found on the right hemisphere of the brain, having the ventricle for its base, with some matter on the surface of the brain, and between the dura mater and the bone at the base of the cranium.

On the morning of the day that I performed the above operation, I had done another of the same kind at the Hospital des Minimes; the dura mater rose up into the opening made by the removal of the circular piece of bone by the trephine, in a similar manner, and without pulsation; and on my puncturing it a considerable quantity of pus oozed out. The opening was enlarged, and the flow of matter was daily encouraged, until it gradually diminished, and ceased with the formation of granulations and the drawing in and cicatrization of the part.

After fractures with depression, or the operation of trepau, herniofcerebrisometimes occurs; and our author has made some excellent observations both on the pathology and treatment of such affections. It is proper to remember, that inflammation of the brain uniformly accompanies such protrusions; and that the antiphlogistic treatment constitutes the basis of every plan of cure, whether the protrusion should eventually require to be sliced away, as in cases in which blood is incorporated with cerebral matter: or graduated pressure be adopted, as in cases of simple cerebral protrusion.

We have thus given a full and impartial review of the work before us. The chief defect in the work is a want of arrangement: for a book of reference this is a serious evil. We would recommend the learned author, in the next edition, to divide the book into chapters, and furnish a table of contents; this would render the volume much more useful. The space we have allotted to this notice shows the high

opinion we entertain of the work. We hope the author will continue his career of activity and usefulness. He has already done the profession and public some good service by hi literary labours; and we shall be happy to meet our author soon again in the field of surgery, in the cultivation of which he has been already so eninently useful.

On Nervous Diseases, Originating from Morbid Derangement of the Liver, Stomach, Syn, otensioning Low Spirits, Indigestion, and Gout; also, on Disorders produced by Tropical Climates, Syr. By George Robert Rowe, M.D., F.S.A., Mein. Roy. Coll. of Phy. and of the Roy. Coll. of Surg. of London, &c. &c. &c. Fifth Edition.—John Churchill.

It seems almost a work of supercrogation to criticise a treatise which has now reached its fifth edition, because this very fact proves that it has been favourably received, and that it requires neither the announcement of the critic, nor the panegyric of the friend, to recommend it to public notice, or to secure it private patronage. But it is, almost as much, our duty to point out, in our journal, and record in our pages the progression of works, which, like this, are firmly established with the public, as the appearance of those which are candidates for the same bonour.

We have no hesitation in placing this work among the first ranks of those which have succeeded, for very few preceded it, not withstanding the Times, in a very flattering notice, in May last, when speaking of the fourth edition, stated that it contained " much that had been already laid before the public by Dr. W. Combo and other medical writers,"—whereas the first edition of the volume was published in 1820, a period when neither Dr. Combe, nor any other medical writer of the present day, had touched upon the subject. Passing over this blunder of the *Times*, and proceeding to the author himself, we find his style at once simple in detail, vet opulent in fact; concise, and yet leaving little to desire; practical, yet possessing the charms of theoretical disquisition. The first chapter, devoted to "Low Spirits," and the Influence of Sympathy, is thus cumulatively composed :-

When the stomach is disordered, languor, debility, restlessness, and impatience are the consequence, and the great sympathy between that organ and the skin is manifested by cating of shell fish, which will, in some peculiar habits, produce a violent cruption, and the external application of cold in fevers occasionally excites vomiting; also, worms lodging in the coats of the stomach, by their irritating powers on its nervous sensibility, cause convulsions in the whole frame. Nothing makes more surprizing changes in the body than the affections of the mind, and when it is considered that the action of the heart is greatly accelerated, or nervous energy preternaturally diffused by fits of anger, the unity of action between the arterial and nervous systems is daily demonstrated. It is but reasonable, therefore, to suppose, when the circulation is languid, that universal debility will be the result, and the contrary when stimulated,pp. 18 and 19.

These remarks are corroborated by the experiments of Dr. Beaumont on the stomach of Alexis St. Martin. They proved that sudden emotions of mind, as well as febrile action, occasion an almost immediate change in the vascular appearance of the mucous lining of the stomach, and in the secretion and sensible properties of the gastrie juice. When St. Martin suffered from a febrile attack, Dr. Beaumont found that secretion of the stomach was suspended, and that if any food were introduced at that period, it remained undigested for four and twenty hours.

The symptoms of hypochondriasis, vapours, or, as Dr. Rowe calls this form of indigestion,—in which, ne believe, the brain plays a very principal part—Low Spirits, are exceedingly well described, and must strike the invalid as the fruit of observation and extensive practice. We give them verbatim:—

Want of appetite, indigestion, debility, faintness, and sense of great sinking and fulness of the stomach, flatulence in the intestines, acid cructations of wind, nausca and frequent vomiting of dark fetid liquor, pain and spasms extending across the epigastric region, great depression of spirits, impatience and anxiety, clay-coloured evacuations from the bowels, sometimes in a relaxed, at others in a costive state, hemorrhoids or piles and frequent discharges of blood, flushings of heat and cold shiverings all over the body, pains in the back and shoulders, spasmodic affections of the muscles, tremblingly alive to a sense of danger, restlessness and want of sleep, sudden startings on the slightest unexpected noise, frequent sighing, a sense of great oppression about the region of the heart, with violent polpitations, the skin is dry and constricted, tongue furred and an unpleasant taste in the mouth, fector of the breath, tremors more particularly when the stomach is empty, with frequent yawning, pams in the head, with frightful dreams and hallucinations, pulse irregular and intermittent, giddiness and confused noise in the ears, vision frequently obstructed and imperfect, impaired memory, wandering and unconnected thoughts, want of resolution, considerable difficulty in being roused to either mental or corporeal exertion, former occupations which were regarded with pleasure and satisfaction now become tedious and irksome, and many other symptoms which it would be tedious here to enumerate. —pp. 24 and 25.

The rules laid down for diet, exercise, and amusements, are judicious and scientific. We regret we cannot make room for them, but the following extract will be found highly interesting, not only to the invalid but the student:—

The principal and most powerful causes of indigestion, and all those distressing maladies resulting from it, are the present fashionable modes of intemperance, and the almost total negligence of taking air and exercise. Homini cibus utilissimus simplex; acceratio ciborum postifera et condimenta pecuici sa, multos norbus multa fercula ferunt.* When the prevailing revolutions of the day to night, and the night to day, are considered, independent of the great indulgence in luxurious habits of living, and the sudden transitions from a temperature equal to that of a tropical climate, to one under the frigid zone, - by rushing from a crowded theatre or ball-room into a dense or frosty atmosphere,-it is but reasonable to conclude, that those organs, whose healthy actions are so dependent on the regularity and temperament of the hody, must ultimately become the objects of attack. Hence, we daily witness the robust appearance of the labouring peasantry compared with the pallid hae of the artist and mechanic, who is shut up in a heated room, frequently respiring the same air which has passed through his lungs: the one will be seen enjoying his meals with the greatest avidity, while the other's appetite becomes vittated, and he loathes the sight of food,—pp. 87 and 88.

From the copious extracts which we have given, it will naturally be inferred that we entertain a very high opinion of the utility and value of this work: we therefore recommend it warmly to our readers, as a practical treatise from which much is to be gained, and a scientific dissertation from which a great deal is to be learned. Before concluding, we shall offer one remark, which, however, is philological, or rather literary—yet, as a matter of curious information, it may not be altogether unacceptable. In quoting the line at page 97,

Incidit in Scyllan qui vult vitare Charybdin.

Dr Rowe, in common with almost every author we have ever opened, who has introduced this

quotation, has given it to Virgil. It is strange that a poet whom we have all read, and at that period of our lives, too, when memory is most tenacious, should be so often misquoted. But such is error-a fact once mis-quoted, misstated, or mis-represented, how difficult to set it right again! The line is not in Virgil, but in the "Alexandries" of Philip Gaultier, a French poet of the 13th century, whose works were printed at Lyons, in 1558. It forms a part of the passage where the poet addresses Darius, when, flying from Alexender, he falls into the power of Bessus,-

Incidis in Scyllam cupiens vitare Charybdim. This blunder is unimportant in a work like the present, but it is worth contradiction, if merely from its universality.

TO CORRESPONDENTS.

Mr. Cooke can have the rumbers if he will name Their safe transmission through the post will be doubtful.

J. W. B. of Houghton to Spring, sends us this nournful case for advice. We give the sufferer the benefit of its insertion.

" Sir, - For about sie years I have suffered from an affliction, which has nearly exhausted the desire to live, and quite drained my purse. I have had the hest medical attendance that I could prience, and all to no purpose. I write to you as a dernier resort, in ask if you, or any of your contributors, can and will give one the information through your paper, (which I now regularly see), how I might likely get some relief from my misery. The disease is that of sore legs. They at first alocated between the call and uncle, and they now are one continuous sure from ancle to knee. The discharge is of a thin gummy nature, and has a fatid smell, and proceeds as it were from a number of pin-holes all over the leg. I am now quite free from alvers beneath the skin; the skin has a readish livid line, and seems as if inflamed. My general health otherwise is quite good; I have a good appetite and am quite regular in my bowels. My present treatment is washing the legs in warm water every morning, and applying simple ointments, and bundages rather tight. I take now no medicines,"-J. W. B.

If our Correspondent gives us his name in confidence, we will forward to him the replies elicited by his case, We cannuot engage to publish them,

Dr. Turnbull tells us that we were in error in supposing him to have ahandoned the use of hydroequatic acid for bisulpharet of carbon, in certain diseases of the eye, and thus explains himself :-

" One reason why I did not rest satisfied with the great effects produced by the hydrocyanic acid was. that its action, like that of all other medicines, deereased in power by continued application, thereby rendering it necessary to have occasional recourse to other medicines, in order to ensure a more speedy recovery. Inother reason was, the relactance of many individuals to submit the eye to the action of so potent a medicine."

We might we presume then to hove said partially abandoned. The Doctor is quite right in supposing that intentionally we would do neither him ner any one

Antimonopolist, who came from Tring (about 10 miles) in his praisewarthy unciety of serving the guar cause of Medical Reform, sends us a long letter, declaratory of the disappointment he suffered from the proceedings of the British Medical Association. He tell, us he considers our abstract a very good summary of what look place. He is of opinion that the resolution, were not of a practical character - that they were of almost a worthless character-while the objects they dwell on were chimerical, and after a few strictures on the Spectionable namenclature Dr. Hall would intruduce into the profession, and the novel pronunciation Dr. Grant would introduce into common use (ex grat. " coperations" for "vorporations") dilutes in profuse panageric on the merits of Dr. Lynch's oratory, which, in the cases of his admiration, he declines to be worth the supper money. He concludes thus: - I think that a general meeting of the whole profession should be called, some mode of action should be adopted, for

which all might contend. Dis. Webster, Lynch, and Granville, might represent the association—the conntus might send delegates. Tring and Aylesbury ne are assured would do their duty, and would not fail to operate on their country members." This would be something like the sort of action wanted, and we should be not a little pleased to see it exhibited. In answer to one venuck of our Correspondent, we must remind him that a year ago when we enlarged on the mismanagement of what should be a useful association, we recommended strongly that it should be joined generally, in the here that an influx of new members while increasing the strength of the union, would lead to some improvements in the Government. That recommendation was not we have reason to know without its effect, though we regret to say the effect produced no general improvement. For some time, as if the society deprecuted publicity and support, there is ested a rule that no reports of the Connect's doings should be published, except in one medical journal; and when subsequently, by a special v de, the " Medical Times," was added as a second, the secretary took the liberty of omitting to send the voted documents, and thus the only one good thing done by the society in the year was vetwed by the society's What association could stand against secretary! such mis-rule from within as this?

Walter C.—Mr. H. W.—A Subscriber, Exeter.— "A Humbigged Member"—L. L.—A. B.—A Constant Reader, Edinburgh-under consideration.

The Case of Gun-shot Wound, by Mr. Smith, as also several other Correspondents, next week.

A Subscriber. - The Callege of Surgeons does not "possess the power of dismissing from their body a member who has arowedly identified himself with, and practwees on his patients according to the Homoeputhic doc-Nor does the Apothecaries Company possess any such power over licentiates.

Mr. Atkinson,-We endenvour to avoid all epistolary controversies; one on the subject named, would be (we think) most of all improdent.

R. D. H. is thanked: his note will uppear next week. Other answers next week.

Our Subscribers are respectfully reminded of our late circular. Several of our Irish friends are hardly do better thun offer the prooptied with which they ever answer to the call of konour, as an coample to some gentlemen who I remorer our office, without being a bit nearer a settlement in our Jedger.-Verbum Sapienti.

NOTICE.

ON THE 1st OF DECEMBER NEXT, WILL BE PUBLISHED, AS AN APPENDIX TO OUR ORDINARY NUMBER, A MEDICAL ALMANAC, REPLETE WITH MATTER THE MOST VALUABLE AND INTEREST-ING FOR THE MEDICAL PROFESSION.-IT WILL CONSIST OF 72 QUARTO CO-LUMNS,-Priel 1d. Plain, 5d. Stamped.

THE MEDICAL TIMES.

SATURDAY, NOVEMBER 19,71842.

Ande aliquid brevibus Gyaris, et carecte digmum, Si vis esse aliquis - PROBITEAS landatur, et alget Crunimbi deleni bortos, praetoria, mensas, Argentum vetus et stantem extra poenla caprum.

WL notice with a pity for the author truly painful, and a height of disgust which almost makes us ashamed of belonging to a Profession contaminated by his membership, the commencement of an infamous attempt to prop up the sunken fortunes of a doomed journal by a course of hebdomadal calminies, personal and professional, on every distinguished Member of the British Faculty. The dull writerthe vulgar brave of a still more vulgar master- is to occupy, it would appear, the pages of a *professedly* scientific journal with the very opposite view to that of extending the boundaries of human know- rectly to support the moral pest, will be to

ledge, or cularging the benign influence of the human sympathies: his one, sole object is to be, to hack the character and mutilate the peace of all above him, by debasing with slander all those below them. High science being the sure provocative of his Vandal envy, its possessor's private character is to be ripped up, not for the purposes of truth, but, to serve the misrepresentions of malevolence: unsound opinions, absurd reasonings, immoral expressions and principles, are to be freely attributed to him; all that vulgar impudence and daring imprincipledness can allege, to rob him of that reputation, which is at once the honour of his profession and the subsistence of himself and family, is to be unscrupulously charged on him:nothing, in truth, within the range of the vile Scribe's imbecile powers is to be withheld, however ungentlemanly, dishonourable, unmanly, or base, which may have the remotest tendency to excite ridicule, contempt, ignominy, and hate, for all who have dated by their genius or labours to advance the noble interests of science, or east a halo of glory over our much abused Profession!

And why is calumny thus to be poured out like water? And why are the peaceful. the ennobling studies of science and humanity's best friends to be broken in upon by this demoniacal exhibition of malevolence? Vice herself, accustomed to services rendered at a cheap rate, revolts against the reason. It is a hope—an improbable, a forlorn hope—to prolong the days of a death-smitten journal. A declining income was in question, and in a remote chance of partially saving it, the demoralized speculator goes merchandizing in characters! In coolly laying down his plan, the ruined reputation, the murdered peace of a medical brother is counted as so much possible addition to the year's receipts! Oh, virtuous projector! oh, most wise speculator!

And what think our brethren of this cool opinion, that the ready way to secure their favour as men, is toweaken those amiable ties of respect and amity which when strongest are, alas, but too feeble, to darken that human nature which, when brightest, is always, alas, too clouded, to multiply those heart-burnings which when least nurtified are always, alas, too numerousthat the sure way to win their support as practitioners is to fan the flames of that personal envy and uncharitableness, which already form the Faculty's Hell, to drag down into the mire the few men whose elevation reflects dignity on their brethren -to strip, in fine, our Profession of public respect and confidence, and, discrowning it of its usefulness, its honour, its purity, to degrade its members into mere conceited bullies and unlearned slander-mongers? Are our brethren flattered with this honouring notion? We think we know their answer, The very touch of a journal conducted on such detestable principles will be felt to be contamination; directly or indiregister one's name as the wicked fautor of a mercenary slanderer; to be its reader and a denizer of good society will be considered a moral impossibility. demented calumniator never made a falser step-never more miscalculated. He has made bad worse. The moribund Lancet following in the same wake with those receptacles of filthy slander—the Paul Pry and Penny Satirist-must inevitably meet the same fate. Increasing enlightenmenta changed, a purer taste, has irrevocably pronounced the death warrant of all such public culprits.

Those of our readers who are accustomed to us, know, that the condemnation we have thus strongly expressed, originates in no prudishiness of overwrought morality,-no silly affectation of transcendental respectability. There is a bold and manly criticism of the words, the deeds, the public character of our public men; there is a refined analysis of their powers - a searching scrutiny into their merits. This is at once the privilege and duty of journalists, which we have not only claimed for all others, but have exercised with no timid freedom ourselves. But we see an immeasurable distance—the distance between honest virtue and mercenaryvice-between this and our contemporary's awkwardly claborated system of slander-a system which endeavours to make the sensible appear fatuous, the worthy contemptible, the learned ignorant, the experienced unwise, the good vicious, by the false, the deliberately false, attribution of sentiments to them which they never would and never could uffer. As Christians,—as gentlemen,—as men, we feel it a primary duty to brand so low and mercenary a criminal with the name that alone tells his vices, and to hold up to public desceration a course which, if attended with the success the sordid speculator in the ruin of characters so foolishly expects, would make our Profession, what a foreign savant, who formed his opinion of us from the pages of the Lancet in its earlier days, once thought us-" a heap of calumniators topped by a few calumniated."

Mr. Erasmus Wilson, whom a hard fate has compelled to sell his abundant leisure to a harder master, promised in one of his recent and better moments, to follow Mr. Lane, and withdraw from the contaminating connection if this threatened career of calumny and fabrication, were recommenced. It has recommenced; his brother surgeons and practitioners, who recognize no gentleman in one continuing in his position, have not yet heard of his retirement.

A parallel suggests itself to us in the incidents marking the rise and fall of the Lancet. As Napoleon, when his downfall was imminent, sought succour by reverting to the early arts which earned him his elevation, so the debased and vulgar Wakley, presenting one point of resemblance to the fallen hero, returns for aid, at the feeling of loss, to the old practices which purchased

Napoleon were the noble arts of a generous and ambitious statesman: the early practices of Wakley, the incendiary blackguardisms of a mercantile assassin of character!

Scribendi recte sapere est et principium et fons

In the last number of the Medical Times we expressed a high opinion of Mr. Grainger's contribution to the cause of Medical Reform. We now proceed to discharge the promise we then made, of early laying its principal contents before

The liberation of the profession from the trading druggists, who, by a strange anomaly, are now at its head, has always been a main object of Medical Reform. Perhaps no country in the world but our own, presents a legal system in which men who, by their education, attainments, and duties, occupy the sphere of gentlemen, are compelled, in order to enjoy the liberty of exercising their professional competency, to connect fliemselves as inferiors and subordinates to a city guild composed of tradesmen-respectable, it is true,-but still tradesmen. On this subject Mr. Grainger thus expresses himself:

I freely admit, what indeed has been universally conceded, that the Apothecaries Company have made most successful efforts to promote this essential object, and that to the successive extension of their curriculum very large part of the advance made by the profession at large, in scientific knowledge, is attributable. As it is through the medium of this body that the great majority of practitioners enter the profession, its character and operations become objects of moment. Without indulging in any personal allusions, it is necessary to point out distinctly that neither the constitution of the examining board, nor the powers under which it acts, are calculated to realise what the spirit of the age demands. It is not becoming that the most important affair connected with a liberal profession should be entrusted to'a trading company, nor that the only act of Parliament regulating medical education should compel a man of science to commence his career as if he were entering upon a mere handieraft occupation, by a lengthened apprenticeship. clause enforcing this apprenticeship of five years has been, in the estimation of those best qualified to form an opinion, the great barrier to the sei-entific education of the medical student in this country, and until it is entirely effaced from the statute book, all attempts to effect improvement in this way will be in vain. It is, for instance, mainly owing to this clause that young men enter the profession at so early an age that there is not sufficient time for that preliminary education, the want of which has been so generally lamented. It is true, indeed, that the Court of Examiners, perceiving the evils of their own regulations, have recommended the student to devote a part of the period allotted to the apprenticeship, to the attendance on lectures, &c.; but to my certain knowledge, in a great number of instances, this advice, from ignorance or other causes, is not followed. Repeated cases have been stated to me of young men having been occupied during the whole five years in the mere business of dispensing.

This is a most intolerable gricvance, a vast injury to the interests of science and the well being of society. If anywhere time should not be mispent, it is in the medical studies; if by any one abilities should not be wasted, it is by the medical student. In trades, or other professions,

money; in medicine, Lives! Mr. Grainger continues:

The apprenticeship clause is not only objectionable, for the reasons just stated, but it inflicts, as it appears to me, another and a more serious injustice upon the student, from which, it is to be hoped, he will be speedily relieved. The Court of Examiners by extending the period of attendance upon lectures and hospital practice to three winters and two summers, without previously obtaining from the legislature a repeal of the apprenticeship clause, have virtually, in a great number of instauces, compelled the pupil to be engaged eight years in the profession before he could obtain the licence to practice. Now, when it is considered that four years is the longest period of study required in the most celebrated universities in Enrope preparatory to taking the degree of doctor of medicine, the injustice of compelling the English student to devote twice that time in order to hecome a mere licentiate of a City company. is rendered conspicuous. When such a demand is made on the time and purse of a student, he has a just elaim to the distinction which a degree would confer; and that such distinctions are eagerly sought after, is proved by the large number of young men who seek to acquire the diploma of the University of London. Last year as many as eighty students presented themselves for examination, of London. and as the degree confers no legal title as to practice, it is clear, what my individual experience confirms, that the main incucement was the ho-nour of belonging to a liberal and learned body. I know of no circumstance more honourable to our profession than this fact, which in itself speaks volumes as to the want of a Faculty of Medicine in this metropolis. As it is, there is at present every thing to discourage the noble aspirations after academic honours which clearly actuate a large number of the rising members of our profession; o that instead of finding the fostering care of a liberal institution to cheer him onward in the toilsome path by which alone scientific distinction is to be attained, the English student must make his way under every discouragement, and not only have his attention distracted by preparing for two ir three separate examinations, but must incur an extra payment, which always presses hard on his limited iesources, and but too often acts as an insurmountable barrier to the attainment of the hononrable and legitimate object of his ambition.

Mr. Grainger adds, that this portion of the question of Medical Reform has not had sufficient attention paid to it. entirely believe this, and the reason is this: -that medical men naturally think more of the grievances actually pressing on them, than those they have left behind them. The evils here exposed, though—thanks to the MEDICAL TIMES—not for the first time, are the evils of medical students; and as these seem little disposed to ask for a remedy, we must await one, we suppose, in the wisdom of some clear-sighted and bold statesman, who will one day, it is to be hoped, place the whole polity of medieine on a basis of just, enlightened, and enlarged principles.

On the principles of Medical Government, which now obtain we have the following judicious remarks: -

The experience of the few last years has shown that a very general and growing feeling of dissatisfaction exists in the profession respecting the manner in which the Colleges of Physicians and Surgeons have exercised their powers; and when we recollect that the great body of members have been and continue to be, pertinaciously excluded from all participation, both in the honours of the profession and the management of its affairs, it requires but little insight into the springs of human action to perceive that so long as a system which him his success. But the early arts of the forfeit of ignorance or incompetency is persisted in the repugnant to every feeling of self-respect is persisted there never ought to be, a cessation from every tair and legitimate means of opposition. Some persons may indeed consider these questions as unworthy the notice of scientific men; but we do not find that in other professions there is any indifference to such matters; the titles, dignities, and power, attached to them, being considered as fair and honourable objects of ambition.

In the case of the College of Surgeons there is an additional and most just cause of complaint, that the ground of disqualification is made to infer a positive inferiority on the part of those excluded; the vast majority of English practitioners being represented to the public as forming a lower grade of the profession. In the scheme of reform lately brought forward by the Council of the College of Surgeous it is understood that the same principle, which has hitherto been acted on by that body, was still recognized. Assuming this to be the case, it may be desirable to pause for a moment, and inquire what that principle is, which is thus so tenaciously retained. It is, as far as I understand, this-that the practice of medicine (as contra-distinguished from that of surgery) or of midwifery, disqualifies the individual so practising from all participation, even the most insignificant, in the honours or management of the affairs of the College. Now, gentlemen, I do not besitate to say that no proposition could be conceived more injurious to the real interest of surgical science, than this attempt to perpetuate that distinction between medicine and surgery, which the unanimous voice of the profession has declared to be equally detrimental to the interests of both,

On the Divisions in Medicine Mr. Grainger observes:

It is the highest glory of modern surgery, that, by medical treatment, the necessity of operations has been obviated in a vast number of eases in which formerly the only hope of relief was in a painful mutilation; and all those who are anxious to alleviate the sufferings of our race would assuredly exert their power to encourage the practitioner of surgery to persevere in the same direction; least of all would they wish to see a retrograde movement, sanctioned by the authorities that be, towards the principles of those dark ages when medicine and surgery were divided between the monks and their barbers. At a time when all classes of medical men are, from conviction, agreed that there should be an uniform education for the surgeon and the physician, it is apparent that a plan which would disfranchise the great body of practitioners, and place the elective power in the hands of about two hundred of what are called pure surgeons, would only tend to perpetuate those dis-sensions in the profession, which are, I believe, entirely attributable to misgovernment.

In the next remark we quote, our agreement is not quite so complete. We, of course, no more hope to suppress all quackery by Act of Parliament, than all thievery; but we think much more might be done than Mr. Grainger imagines, We gave our plan in Vol. 6, which is the one (expanded and more complete) which the essayist's "esteemed friend" appears to support. If Dr. Hodgkin claims priority in advancing the scheme, we should be ealled the speckled; the green, and the black. The happy to hear his reasons, and give him first was the only one much in use, being the same the credit he deserves, But to the quotation:

To expect, by any legislative enactment, entirely to suppress quackery, is, I believe, a vain anticipation; so long as there are knaves and fools in the world, will there be professions of cure by ignorant pretenders. Indeed, when we consider how numerous is still the class of incurable diseases, and the occasional success which attends bold and empirical practice, however much we may lament the fact, we can scarcely be surprised that, when science can hold out no hope of relief the sufferer should sometimes eatch at the confisubject, I am diffident as to the correctness of my own judgment, but I certainly agree with those who, like my esteemed friend, Dr. Hodgkin, think that all that can be effected by legal chactment is, in the first place, to prevent the empiric assuming any title which he has not really obtained, so that he shall be compelled to write himself down a quack; and, secondly, he should be punished as for a misdemeanor, whenever his ignorance leads him into injurious mistakes, either of commission or omission. At the present time, however, no attempt whatever seems to be made to repress illegal practice; so that the empiric has a clear field before him. The only body which pretends to interfere is the Apotheenies' Company; and they, of late, appear to have abandoned this part of their duty as a hopeless affair; so that, unless some speedy and effectual change be introduced, there is great reason to fear that we shall lapse again into the state of the profession prior to the Act of 1815.

Mr. Grainger concludes his essay with hints on the necessity of examining druggists on the possibility of preserving the present College, in combination with the institution of One Faculty, and the very great importance of having honorary distinctions, as rewards for high scientific attainments. We conclude with the expression of our agreement in his opinions, and our respect for the able and lucid manner in which he has propounded them.

IMPORTATION OF FOREIGN LEECHES INTO ENGLAND.

(For the ' Madical Fines.')

It is not generally known, that the leech trade is one of very great extent in this country, and few people are aware from whence this most useful amphibious animal is procured to supply the great demand that is made for it by private patients, as well as the public medical institutions that abound in this metropolis, and throughout Great Britain. In former years Lincolnshire, Yorkshire, and other fenny counties were able to supply the demand; but since the letting of blood by means of the lancet has been partially exchanged for the more officacious application of the leech to the injured parts, they have been entirely exhausted. At the conclusion of the peace with France, in 1815, several dealers and speculators visited Paris, where they found leveles were easily to be obtained, and at a moderate price. The herbalists and apothecaries who supplied the hospitals, used then to purchase them in small quantities from the conductors of the Diligences coming from Niort, Tours, Orleans, St. Quentin, and other parts of the interior, not as an article of commerce, but only sufficiently to meet their demands. The arrival of Englishmen in the French capital soon excited their suspicions that money was to be made; and the conductors were soon on the qui vire, that they might make a good market with John Bull. At that time they charged only 10 or 12-franes per thousand, leaving themselves a good profit, as they were able to procure them from the peasantry at 5 or 6 franes. There are various species of leech—the grey or sangsues grises, commonly species as that formerly caught in England, although the green are equally as good; but the bite being more acute than the speckled, there was a prejudice against them. The black or horse leech was strongly depreciated by medical men as it is considered rather venomous, and sure to cause inflammation; that species is never used either in England or France. The demand from 1815 to 1823 for the London market was, on an average, annually from 8,000,000 to 10,000,000. This increased call soon made the French conductors and dealers turn the leech into an important article of commerce. From 15 francs they gradually rose to 25, 30, 40, 50, 100, and, at last, by

1815, were so abundant in leeches, are now dried up, and the French themselves are obliged to import them from other countries, so as to meet the demand for their own consumption. The great cause of this annihilation of the species, is the over-eagerness of the fishermen to take them, whereby millions were destroyed before they came to a state of pulserty, being only cocons or spawn, Such has been the profit in the leech business that many of the Paris conductors and petty apothecaries, who had but a few hundred francs, are now independent men, and extensive proprietaires, worth £20,000 to £30,000 in funded and landed property. The deficiency in the supply of the leach made the London dealers turn their attention to Hamburgh. where it was found a great traffic in this useful creature was carried on to a very great extent by the dews: it is, therefore, from that commercial eity that the English warket is now supplied through the expeditions communication by steam. The Hamburgh merchants procure them at a great expense (as the mortality is very considerable), from Hungary, Poland, Walachia, and the borders of Turkey; but it is expected that the species will, in a few years hence, be entirely exhausted throughout Europe. They are caught in Spain, Portugal, Switzerland, and Raly, but of the green species only and of so very sickly a constitution, that they will not support the fatigue of a journey to any distance, although they are well packed in wet canvass bags filled with moistened moss. Such is the searcity of the speekled leech, that it is with difficulty they are now procured; and although there has been for years a prejudice against the green, they are the only species that can now be obtained, and that at an enormous price, being sold in the London market at £8 per thousand, when they formerly could be purchased for 10 and 12s. This high price, added to the searcity, has caused a most astonishing falling off in the demand, and, on an average, the annual importation from Hamburgh and Paris is not more than 3,000,000 to 1,000,000-as the hospitals and other institutions are only enabled to use them but in cases of the greatest necessity, where bleeding by the lancet would not be so efficacious. Nothing can be of more general use than the leech in a surgical point of view, as it can be applied with the greatest safety to the parts affected, and it is deeply to be lamented that it is so near becoming extinct. The mode of taking the level used to give employment to thousands of men, women, and children, who entered with their bare legs into the gentle running streams, and disturbing the water with a stick, these blood-suckers soon attached themselves to their bleeding legs, when they were instantly placed into jars. Many attempts have been made to propagate them in reservoirs, but without effect, as they will not breed except in marshy grounds and undisturbed running waters. The mortality among the peasantry who are engaged in the leech fishery is very great; not so much from the constant loss of blood, but the effects of exposure in the unhealthy swamps, thereby causing agues and premature death.

EXTRAORDINARY CASE OF CLAIR-VOYANCE.

Sir,-The subject of this letter is Madmoiselle Virginie, a somnambulist of Monsieur Ricard's. The first time I saw her was at a scance in M. Ricard's house, at which there were about fifty people; I was accompanied by Colonel Kent Murray. During the evening I was put en rapport with her, and asked her to describe the person I was then thinking of. I gave no name, nor did Leven state the country in which the person was. To my astonishment she began her description with some humour. She gave me the exact portrait of the lady, as well as her character, moral and physical. In points the most minute she was quite correct. Colonel Murray was then put en rapport with her, and she did the same thing by him, describing a lady whose name he never mentioned. The picture of the lady's person was perfeet, and equally so her character, even to the motions of the body. When we left the room we did so in amazement, at the way we had heard our dent promises of the undannted quack. Knowing their becoming exhausted throughout the whole strong feelings of the profession on this country, to 200 Iranes. The Departments that, in bye, there is something more in it than mere reading of thoughts. It seems as if sometimes she can get en rapport through your thoughts, with the persons themselves of whom you think, else how can she tell things of them, of which you yourself are quite ignorant, and this it will appear hereafter, she can do. The next experiments that took place, in which I played a part, and I auswer for none others, though I have seen plenty, were when the other day at my request, M. Ricard gave me a private scance with Virginic. I took with me Lieutemant Colonel C. and his lady, Major C.S. and his lady, and Captain Rob! Jump. The first experiments we made were as to the power of discovering disease, without any previous knowledge. Mrs. C. S. being an invalid, was first put en rapport with her. She described her malady correctly, but did not lay stress enough on the rheumatic pains she suffered from. Colonel C--, whose disease I was quite ignorant of, was then put en rapport with her, but she soon enlightened me on the subject. Her description was, he acknowledged correct, though he is no friend to the science, but he cannot deny it, having seen too much of it in his own family. We then left the subject of discovering disease, of which nambulists that they are possessed, to go to "comwe were well convinced by her and other sommunication of thought," and "view at distance," but before I proceed with my narrative, I will remark that I cannot discover how far the perception of disease is connected with mere communication of thought. Thus, if I place a sick person en rapport with a somnambulist, and the somnambulist discovers the disease, what proof have I, that the sonnambulist does more than tell that person their own opinion of what is their own disease. That community of sensation, which I have proved to myself they often possess, may assist them, I have no doubt, but I have as yet no proof they can see the vital organs as they say they can. I have as yet not seen any description or discovery of disease, made or given by a somnambulist, in which they mentioned anything but what they might learn from having community of thought and sensation with the person with whom they are en rapport. Still I will deny nothing, though, till I see it often, I am not bound to believe. now return to Madlle, Virginie. Mrs. C. S. being placed cu rapport, asked her to "see the person she was thinking of." Virginic consented to try and only asked if the person were man or woman; and on being told "a man," she said, after a moment's pause, " I see him. He is in London. Tall; open chested; bean garcon; not old, rather young; high forchead; hair long and brown; fine eyes colour blue, eyes are full; large nose, and large at the bottom; large mouth; smile pleasing; large chin; skin fresh, but not red; fine teeth, but two of the upper single teeth one on each side spotted; neither beard, moustache, nor whisker." She said "he once had a few hairs on his chin, but they grew so seanty that he cut them off, "He draws." He does not amuse himself. He invents. He has plans before him. He communicates his thoughts to an old man, who has much self esteem; is not his true friend, but pretends to be so, to get or learn what he can from him without acknowledging the obligation (a brain picker.) The old man has grey hair, and the forehead, or head, slopes backward he is wrinkled; bad month, and a dirty one; large cheek bones; neither fat nor thin. The young man is, in fact, quite tired of the old one, for he knows him now. The young one has some family annoyances. He studies much ; &c. &c. C. S. declared the description perfect, but she did not believe about the spotted teeth,—at least, she had never seen them; and Col. C. S. said his eyes were brown, not blue-though Mrs. C. S. differed with him. About the old man they never heard or knew of such a person.—I then asked who the gentleman was, Vivginie had described, for I was quite ignorant. I was told his name, and also that he was an architect, which quite explained the "plans," &c., Virginie talked of. The scance " plans," &c., Virginie talked of. ended, and Mrs. C. S. wrote offthat evening to the gentleman in London to ask about the teeth, the eyes, and the old man. We have received his answer, and I send you extracts from his letter:-" I believe the description of disposition and character to be true." "Family troubles I have at duce such effects. I think no person ever believed our next.—Editor.]

this time requiring much attention. Personally her sketch is correct, save the blue eyes and breadth of chest." "There are two spots on teeth on the upper jaw; and, speaking with a Frenchwoman's notions of hair on the face, she is right in saying I have none, and when I reislied it would "The history and grow, it came too stingily." portrait of the old man is, to the rery letter, PER-HECT"—"it is singularly correct"—"I have long known him as a 'brain picker'"—"he is famed for self esteem, and I have thought him more a friend than I do now; in fact, I am tired of him: the sketch of his person is exact." "The somnumbulist's statement that I include rarely in any annisement is very true." It now appears that Mademoiselle Virginie's description was quite It now appears that correct, except as regards the eyes and breadth of chest. Mrs. C. S. thought they were blue, and Virginie, having communication of thought with her, was of the same opinion,-and after all, I believe, they are grey; as to the chest, although the centleman may not be remarkable for great breadth of chest, I understand, there is no contraction,—nor is he positively the contrary. Besides, supposing she had committed a great error in the description of any particular part of him, surely if all the rest be correct, and there be no difficulty from her description to pick him out of a thousand, it could be of no matter whatever. I have confined myself merely to the facts of the case, as all speculation on the subject appears to me absurd, for it can be founded on nothing, till we have collected more facts to fill up the wanting links in the chain of "cause and effect." remark that in the case I have just given, there was something more than communication of thought between the somnambulist and the person en rapp rt with her, for Mrs. C. S. knew nothing of the old man, nor of the spotted teeth, nor of his affairs. It seemed as if the somnambulist got en rapport with the person thought of through the brain of the person upon whom the somnambulist was en rapport with. The beauty of this class of experiments is that there is no room for collusion. Let a sceptic be put *en rapport* with such a somnambulist, and get the description of any person be chooses, using them only as "the person be thinks of." What can be say? -what room is there to be deceived? It appears to me there is none, and therefore it is true. Those who cannot lay dis-honesty or deception to my account, kind and charitable people! say, or pretend to think, that I am the victim of some deception or collusion, got up to deceive me, without any one's getting anything by it. Such an idea is absurd, and I say to them, with Hamlet, "lay not such flattering unc-tion to your soul." It is not our madness, but their prejudice that speaks. It is impossible that we can be deceived as to certain positive facts which we all agree to exist, which we see every day, and about which we have not the least interest to deceive others or ourselves. I will not defend myself and brethren from the charge of roguery, for such an absurd charge has never been made against us as a body, even by the most sceptical, nor will I even defend us from the charge of being fools, for even that has never been laid to our door, for it is well known, (I say it without bashfulness) that mesmerisers generally are well read, scientific men, and count now, and have always counted amongst their number, men of the highest talent, intellect, scientific research, and scientific authority. What then is the charge against us? Why the ignorant, the idle in investigation, and such men as those who condemned innoculation as unholy, and Galileo to the inquisition, say, " We are visionaries." Do they know the meaning of the word, or is it in their months only a term of abuse? A visionary is he whose belief is founded on his feelings, not on his reason or judgment. A madman feels himself a being, and therefore believes himself one, for his feelings are stronger than his intellectual faculties, and that man is a "visionary." Now, do mesmerisers arrive at their conviction by feeling or reason? Clearly, not by the former; for speak to any mesmeriser of the present day, or read the history of those gone by, and you will see that at first all the feelings were against it, from the apparent inefficiency of the cause to pro-

in mesmerism without having experienced a hard struggle between his feelings (alias, projudices) and his reason. If his reason be strongest, so as to enable him to judge of the nature and weight of evidence, he believes, -and, if the feelings be strongest, he cannot believe. Ask a visionary, why he believes so and so, and he can give you no durin of criticace, unbruken, to support his belief, but gives you words and sentences which have no meaning, and which have in them no chain of positive evidence of the thing to be proved. Ask a mesmeriser why he believes, and he will tell you that he sees, daily, certain positive facts, which, for want of a better name, he calls "Mesmerism." offers to prove these facts—and to show them—and does show them—yet he is called a "visionary." Were a mesmeriser to stick up a dogma to account for them, and his chain of positive evidence to be incomplete, then he would deserve the name of " visionary;" and that name is well deserved by many French authors. When I use the word, "Mesmerism," I mean only certain facts called "mesmeric," and to which facts, all mesmerisers agree. Doubtless, there are many things given to us as such, by a single author here and there, which are false-or rather, I should say, errors, for where I can discover no gain to be got by deception, it is more probable that the author was mistaken, than that he aftered what he koew to be false. are plenty of points in mesmerism which I do not believe one word of, and shall not, till they are as much to me of every-day occurrence as the facts I have already attested. Before I conclude, I will be hold enough to give a piece of advice to all mesmerisers. I have had a good deal to do with sceptics, and some very few I have failed to convince. Perhaps, I wound their combativeness by my desire to convince them; so I advise mesmerisers never to shew any anxiety about it .- Secondly. Before ever they allow a sceptic to see any of their experiments, ask them what evidence will convince them? Let them name the experiment, and settle with the mesmeriser, beforehand, how it is to be conducted. This will save great trouble and loss of time, for you will at once discover those who are to be convinced from those who are not.

The following is the sort of conversation I once held with a sceptic:-

Q. Will it convince you that the patient is in an unusual state, if I apply a flame of fire all down his thigh, and he shows no sign of feeling?

A. No. Some men will bear anything.

Q. I deny it: but, it he breathes pure ammonia while you hold his mouth, and see or feel his lungs expand, and he gives no signs of feeling, only increased secretion of water from the eyes, caused by the stimulating, though unfelt, effects of the ammonia on the membrane?

A. Practice, Sir, practice!

Q. Shall I make him deaf, or hear, at a private signal from you?-or, shall I give him any mental order you choose to write and give me, and make him do it?-or, shall be detect a piece of money I have touched, out of a thousand?-or, shall be read with a bandage over his eyes?

A No, no,-for though you may do it, I can't tell how it's done; it won't prove there was no trick in it, though I can't find it out.

Q What, then, will convince you? A.* Nothing.

Such men speak the truth-and nothing will onvince them.

Your obedient servant,

WM. Macpherson Adams.

10. Rue Mont-Thabor, Paris-

[We know from good authority, that similar matters occuring in the same locality, are exciting the amazement, and occupying the attention of some of the most illustrious persons in the realm. When we mention that Col. Gurwood, the editor of the duke's dispatches, thoroughly believes (as he says, from recent positive personal evidence) in marvels as startling, we may add as incredible as those above narrated, our readers will surmise some of the high quarters in which mesmerism is likely to be exciting interest. A case of amputation performed during mesmeric sleep, is accepted, and is to be read at the Medico Chirurgical Society, on Tuesday next. We shall notice the paper in

DR. HASTINGS EXPLANATION.

To the Editor of the ' Medical Time: .'

Str.-1 beg to inform you, that I received a similar letter to the one you have published in the Milnical Times of October 29th, from Mr. Guthrie, as President of the College of Surgeons, and that I read it to the Provincial Medical and Surgical Association at their anniversary meeting, held at Exeter in August last.

I am. Str,

Your obedient Servant, CHARLES HASTINGS.

Werester, New. 12th, 1842.

EFFECT OF MATERNAL IMAGINATION ON THE FETUS.

To the Editor of the "Mittieat TIMES."

SIR, - The influence upon the feetus, of certain mental emotions occurring in the mother, being a disputed question in physiology, and one of some interest and importance, I have thought that the following cases (for the veracity of which I can vouch) might not be unacceptable to your readers.

About a year ago, one of my dispensary patients shewed me her infant, which presented on the left upper extremity a mere stump, of about two inches in length, beyond the elbow joint, terminated by a puckering of the integuments on which were situated five minute bodies resembling the tips of very small fingers: the child was otherwise perfectly formed. The history of the case is as follows:

Eight months before the birth of the child. the mother, walking with her sister (from whom I have collected the particulars), met with a beggar who, in order to excite compassion, exhibited an amputated stmmp on his left arm. The woman immediately expressed a sense of disgust and horror, and observed that, if she had been then pregnant, she should expect that her child would be born similarly maimed. The sequel has proved that she was then pregnant, though she did not apprehend it, and that the fears of the result were too well grounded.

Her sister was present at her labour; and on receiving the infant, and discovering its deformity, experienced a thrill of disgust and sorrow, from which she did not recover until a few days after, when I was called to attend her for abortion, she not having previously suspected that she was pregnant.

A few days ago I was called to attend, in her second labour, an intelligent, respectable young woman, the wife of a plumber residing in Hornsey-road, opposite to the first-mentioned woman. The child, which is otherwise perfect presents a deformity precisely resembling that above described, with the exception of two imitations of finger ends instead of five, as in the former instance. I have collected the history of this case from the sister-in-law, the husband, and herself. About eight months since, she was subjected to exactly the same couses as those I have related in the other case; she also did not suppose herself to be then pregnant, but expressed the same extreme sense of aversion, and her fear that " if she had been in the family way" the infant would be similarly maimed. The sequel of this case like the former, proves her fears to have had their effect.

In both these instances the same dread of the result had been frequently expressed during the period of gestation; and I have reason to think, though, of course, I cannot prove it to my satisfaction, that the same individual vagrant was the cause of alarm to each.

monstrosities to the operation of mental influence; and it is not without reason that the medical profession look with distrust upon narratives of this nature; but the cases I have related admit of no other explanation. They are not given without a rigid scrutinizing examination of the historics related by the parties concerned.

It is not because we cannot, scalpel in hand, detect the channel of communication, that the existence of such is disproved-neither is it by ridicule without examination, that the truth will be discovered. On this as on every other undecided point, facts alone, accurately collected, will show on which side truth is to be found; and I conceive, that the cases I have related, do go far to prove-1st, the susceptibility of the fortus to have its development interfered with by violent mental emotions taking place in the mother; and 2dly, that such interference can only occur in the early periods of pregnancy.

The ease of abortion 1 have related merely on account of the relationship between the women, not in illustration of the power of mental emotion to produce miscarriage, as no doubt exists on this point.

Lam, Sin.

Your obedient Servant,

W. B. KESTEVEN, Senior images of the Holloway and is 1th Libration Dispettions.

Upper Hollowny, Nov.~12th,~1842.

ADDENBROOKE'S HOSPITAL, CAMBRIDGE. We are requested to aunounce the election of three surgeons to this hospital-Mr. Lestonrgeon, Mr. Hammond, and Mr. G. M. Humphry.

FOREIGN LIBRARY OF MEDICINE, SUR-GERY, AND THE COLLATERAL SCIENCES.

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FRENCH.

Des Gride, Mayons, &c.—On the Homosopathie Treatment of Madness, 8vo. Beauvoisis, Du Cancer et de son Traitement-On Cancer and its Treatment, being a Complete Exposition of Dr. Beauvoisin's Method, which excludes the use of all Cutting Instruments, 8vo, -- Denort, Esquisse de la Phrénologie, &c.—Outlines of Phrenology, and its applications popularly explained, 12mo, 2s. — GAULTHIER, L. P. AUG., Examen Historigue, &c .- A Critical and Historical Inquiry of the new medical methods of treating Syphilis, 8vo. -Malgarde, J. F., Mannet de Medicine Opérathire founder sur l'Anatomic nermale, &c .- Manual of Operative Surgery, 12mo, 6s,—Auries, Memoires sm les effets thérapeutiques du monesia, 8vo.-Me-moirs upon the Therapeutic Effects of, &c.--Chailla, M. J. R., et Godier, Précis de la Rachidrarthasic, nouvelle methode pour le redressement de la taille, &c.-A New Method for the Treatment of Spinal Complaints, Svo. - Encyclographic des Sciences Medicules. Junt, August. Devia Glos, B., Physiologie Intellectuelle on l'Esprit de l'homme considere dans ses causes physiques et Morates, Ac. - Intellectual Physiology, or the Mind examined in its Moral and Physical Principles, 8s. PLATENER, M. C. F., Tableaux des Caracteres que presentent un chalumean, des Adalis, les Terres, t les Orydes Metalliques, soit sents, soit avec les Reactifs. Traduits de l'Allemand par Sobrero, 400. 28, 6d. Tables of the effects produced by the Blowpipe upon Alkalis, Metallic Earths, &c.

*. * The French works above announced, may Popular opinion is prone to attribute all behad through Dulan and Co., Soho Square,

PERISCOPE OF THE WEEK,

TARTAR ON THE TLEIH.-M. La Baume ascertained, that washing the teeth with vinegar and a brush, will, in a few days, remove the tartar; thus obviating the necessity for filing or scraping them, which so often injures the channel. He recommends the use of powdered chargoal and tincture of rhatany afterwards, which effectually (in his opinion) prevents its formation.

AGUE,-Verual ague is more curable than autumnal. Dr. Seymour has never known quinine fail in curing the former; in the latter he has had resort to arsenie. It is a common mistake, on seeing a foul tongue at the commencement of this disease, to suppose that quinine is inadmissible until the digestive organs are set right. Dr. Seymour says, that the state of the tongue is produced by the fever, and that it you go on purging with the hopes of relief you will render the disease more dillicult to cure; he therefore, recommends an emetic, and a purgative afterwards. It is necessary to continue the quinine after the paroxysms are stopped, as sometimes the first dose of apericut medicine will bring back the fit. He alludes to the power of emeties, in altering the periodicity of disease, and draws the attention to the sallow shrunken countenance produced on its continuance, by the determination to internal organs.

CLIMATE. The liver is more prone to disease in the warm than the cold elimate, and the lungs in the cold than the warm-for this reason: increased action implies increased determination, and this again disposes to inflammatory action and congestion. But as variety of temperature causes variety in the energies of action in the liver and the lungs respectively, corresponding consequences supervene: and as the lungs are more engaged in vold climates, they are also more disposed to disease; while in warmer ones, the liver acting with increased energy, becomes also more susceptible, Plithisis and pneumonia are almost as frequent in hot as in cold climates.

ELECTROTYPE SEALS.-Hold the sealingwax impression over the mouth of a Florence flask, having a small tube, from which the vapour of spirits of wine is proceeding, by the agency of a lighted candle below; blacklead powder is instantly applied by a camel hair brush; and lastly, a fine point of wood being nicely passed over it, it produces a burnished surface. When the copper seal is removed, touch the back with a soldering iron and pour on your lead or fusible alloy, so as to form a sufficient mass for a seal.

Dysextery.—The pathology of dysentery, is inflammation of the colon. There is in general, pain, with a desire to go to stool, and a feeling of a load in the bowels and griping pains; the patient goes to stool and perhaps passes only flatus; afterwards a thin glairy inneus, with, say bile, and afterwards blood, and lymph, as in the cases seen on the Gold Coast of Africa The membrane slonghs, and there is a thin discharge; the blood is a symptom, not of ulceration, but of inflammation. In alceration there is a discharge like green tea, and not bloody, except when an artery is involved. In this climate it is almost invariably curable; yielding to purgatives, as long as the patient feels the load in his bowels you may purge according to his strength. Helvetius recommends ipecacuanha, which for some time has been often employed in doses of gr. xv. ad. Aj. When the inflammation runs very high, colomel must be used, and when it gripes, you must add opium. The ulceration after dysentery is a slow chronic mortal disease. It is more chronic than the ulceration after fever; because, in the latter, the small intestines are affected, from whose surfaces a greater degree of lacteal absorption takes place, than from that of the larger intestines.

DISEASE OF THE HEART.—Dr. Macleod states that the action of the heart as excited by organic change, is not so perceptible to the patient as when only sympathetically influenced. This remark was made on a case where great pain attending disease of this organ, had been much relieved by the application of morphia ointment to a small blistered surface over the heart.

CENEMIA WITH CHIOROSIS.—Dr. Hamilton Roe recommends the use of ol. ricini, and ol. terebinth. a a 5iij., at bed-time; and in most cases it is attended with beneficial results.

Talbot's Calotype.—The paper is covered with iodide of silver, by washing it successively with nitrate of silver and iodide of potass; afterwards it is washed over with gallo-nitrate of silver,* the greater part of which is removed by immersion in water, but enough adheres to render the paper exceedingly sensitive to light. The paper is then dried, and placed in the camera obscura, and the image of a building or other object, is generally obtained in less than a minute. This image, however, is less than a minute. usually quite invisible, and the mode of rendering it visible (which is the most curious part of the calotype process) consists in washing it again with gallo-nitrate of silver, and then gently warming it-which generally causes the appearance of the picture, with great force and vivacity, in the space of a minute or less. The theory of the process remains at present unexplained. To fix the picture, it should first be washed with water-then lightly dried with blotting paper—and then washed with a solu-tion of bromide of potassium, containing 100 grains of that salt dissolved in eight or ten ounces of water.

INDIAN PREVENTION OF DRY ROT .-- At Yaynankhyvin, on the banks of the Irrawaldy, are the celebrated Petroleum Wells, which supply the kingdom of Burmah, and the adjacent countries as far south as Junk-Ceylon, with lamp oil. The priests, whose religious works are all written upon the leaf of the talipot palor (Corypha umbraculifera,) smear the surface with this mineral oil, for the double purpose of filling the interstices with a dark matter which shall render the letters visible, and in order to protect them from the attacks of insects, and the ravages of time. I have seen such books of various ages, from fifty to one hundred and fifty years, whose antiquity could be verified without difficultytheir preservation having been attributed solely to the indestructible properties of the Petroleum, in which they had been soaked. Having mentioned these facts, it only remains for me to draw the attention of scientific persons to them, with the view of testing the qualities of Yayuan, as a preventive to dry rot in timber. The experiment may be tried without much expense, by saturating some planks with this liquid, and giving them a fair trial with others not so protected. There cannot be the same objection made to this mineral production as there is to arsenic or corrosive sublimate, inasmuch as the Yaynan is not only perfectly innoxious, but has rather an agreeable odour.

MATERNAL IMPRESSIONS ON THE POTUS. Case I: Josephine Minnebol, says M. Guislain, of Gand, was a few weeks advanced in pregnancy; she was in good bealth; one of her ac quaintance came to see her, wearing in her cars earrings, called in Flanders, "petites clockes, (little bells, from their shape.) These jewels eaught the affections of Josephine—she admired them, coveted them-gazed upon them with eagerness. Forthwith she was beset with an ardent desire of possessing similar earrings. At the period of her confinement she brought into the world a healthy infant, offering the singular phenomenon of two appendages, an inch in length, and shaped like acorns, hanging by a pendicle to the antitragus of each ear. Case 2: M -- , an advocate, went with his wife to visit a farmer, in whose house she saw a child having a supernumerary thumb. She had been pregnant a few days. Some time afterwards, she had a dream during the night, in which she saw this same infant, and this same double thumb; -she got up, and uttered a cry of alarm After this, she was frequently occupied with the idea that her infant would be born deformed. At the eighth mouth she was delivered of a still-born child, which had a supernumerary thumb. Case 3: Dr.——, member of the Medical Society of Ghent, relates the following concerning his wife. His wife, who is not at all superstitious, was pregnant for the fourth time, and in the fourth month of her pregnancy, when, in the winter of 1832, she missed her footing, and fell at full length, first on her knees and then upon her elbows; this caused her knees, thighs and elhows to be denuded of skin; she was immediately anxious for the fate of her infant, and she frequently made use of the expression to her linsband-" Provided that our child does not suffer from it." Being contined at the usual period, she brought into the world a male child, with the knees, thighs and elbows presenting the appearance of torn flesh, denuded of skin. Case 4: A woman, in the fifth month of her pregnancy, was engaged in applying a certain number of leeches to the chest of a young man affected with pleurisy. Some time afterwards she brought into the world a healthy child, but presenting on the left side of its chest, marks analogous to leech-bites. It is confidently as serted, that there was a large red ecchymosed patch to be seen close by the former. Twentyfour leeches had been applied, and twenty-four spots were found upon the body of the infant. Case 5: A women of Ghent, during the course of her third pregnancy, conceived an insurmountable aversion for a person whom she often saw, and who had her hands bent back at the wrists. She was delivered of an cight months' child, which presented a complete doubling back of the hand upon the fore-arm. M. Guislain also treats of the influence which certain impressions of different animals, perceived by the mother, are able to transmit to the children, as well as of that which the character proper to each kind of animal exercises during incubation, upon the individuals confided to it. He brings forward the fact of a pregnant eat, which struggled with a terrier with crooked fore-legs. A short time after-wards she brought forth a kitten, the fore paws of which were crooked, and remained crooked like those of the terrier. Thus, a hen's egg, sat upon by a magpie, was productive of a game cock, surpassing every other animal of the same kind. Pigeons of a lofty Hight covered by heavy hirds, were no longer able to quit the earth; and vice versa, ponlets produced from eggs sat upon by pigeons, have been observed to fly higher, and keep longer

CREOSOTE IN PHTHYSIS, -A female, aged 34, under Dr. Fraoz, of Konigsfeld, was affected with tubercular phthysis, and the emaciation of the patient, the colliquative sweats, the aphthie, fetid expectoration, &c., showed that the disease was already in its last stage. The administration of creosote was then commenced, and after eight grammes of this substance had been given, the improvement obtained was such, that the patient was able to te-nine her operations. A result no less favorable was obtained with the same medicine administered to a peasant, aged 28, who laboured under phthysis. But, in three other similar cases, its employment was obliged to be abandoned, because under the influence of its action, the cough and all the hæmoptical symptoms were aggravated by it.

REMEDY FOR CERTAIN ALTERATIONS OF THE MILK IN NURSING WOMEN.—A nurse had the milk too clear and scanty; she did not feel it rise. The following means, employed by Dr. Chabrely, succeeded in two days correcting the bad quality of the milk, and in greatly increasing the quantity of that secretion: R Magnesia, 10 grammes; powdered orange peel, 3 do.; white sugar, 65 do.; M. and F. S. A. a perfectly homogeneous powder. The nurse took, three times a day, in a cupful of a weak infusion of lime, properly sweetened, a teaspoonful of this mixture. Under the influence of this medicine, her appetite, previously had, became excellent, and, owing to this circumstance and the direct effect of the medicine, her milk acquired in the space of two or three days all the qualities necessary for affording sufficient nourishment to the child. Madame Armand B. had galactorrhoza for three months, which wasted her. The child fell away. In this ease, Dr. Chabrely had recourse to the following medicament :- B bicarbonate of soda, † grammes; powdered orange peel, 4 do.; white sugar, 80 do.; M. and F. S. A. a perfectly homogeneous powder. Madame Armand B. took, three times a day, a teaspoonful of this mixture in a cupful of a weak infusion of edulcorated ayu-pana. Under the influence of this medicine, she entirely re-covered her appetite, which had left her from the commencement of the galactorrhora. Two such doses were sufficient to correct the milk and to suspend the incessant flowing. From this time, the lady was enabled to continue to suckle her child, to the great benefit of both, for, in a few days, they acquired their former plumpness.

ANTHRAKOKALL.—Dr. Polya states that he has employed anthrakokali with marked advantage in scrofula, chronic rheumatism, articular rheumatismal tumors, tophaceons arthritic concretions, and hydrarthrosis. Anthrakokali is prepared by mixing in an iron basin 160 parts of powdered coal, with 192 parts of a very concentrated and boiling solution of potassa causticised by lime-is made, the vessel is removed from the fire. After removing it from the fire, continue to stir it until it is converted into a homogeneous black powder. He administers three or four times a day the dose of 0-19 grammes, mixed with 0-25 grammes of powdered liquorice, Many Parisian practitioners bave tried the employment of this medicine, and among others, Dr. Gibert, who, at the Hopital Saint Louis, has prescribed in several entaneous disorders. Its internal exhibition not having appeared to him very advantageous, this physician employed it under the form of a pommade according to the following formula:—anthrakokali, I gramme; lard, 30 do.; M. and F. S. A. a homogeneous pommade. It is applied morning and evening to the

^{*} The gallo-nitrate of silver is formed by simply mixing solutions of nitrate of silver, and gallic acid. The operation requires to be executed with great care and precision, but is not difficult in other respects.

diseased parts. Tried on 24 individuals affected with skin diseases, it cured many of them, and its employment in others was signalized by a manifest amelioration. The action of this medicine appeared resolutive, but less exciting than the preparations of iodine or ammonia.

Paralysis withour Loss or Sensation.—W. H. G., Esq., act. 36.—In 1836, Mr. G. had a phagedenic ulcer of the left leg. which got well after some months; but it again broke out in 1839, when he had also a large chronic ulcer on the posterior pharynx of some duration, but not of a syphilitie character. He had pains in the head, with very costive bowels, during the greater part of the year 1839; in January, 1840, epileptic attacks, with very slow pulse, now supervened; and in the spring following, Mr. G. had spas-modic contractions of the lower limbs, accompanied by a sense of weakness in the back; and latterly he lost the use of his legs, and ultimately the entire control over every muscle situated lower than the neck. During the last twelve months of the patient's life, the whole body was paralysed, excepting the head, neck, and diaphragm, by which breathing was entirely carried on, and not by the muscles of the chest. However, sensation remained, perfeetly natural throughout the entire surface of the body; and towards the termination of the disease, the patient's feelings were even more acute than usual, and he could always tell, on the slightest touch of a bystander's finger, the exact spot to which it was applied. Severe spasmodic twitchings of the legs and arms were now more frequently noticed than before, and these were sometimes, so violent as almost to throw the patient off his conch. The extremities were often very cold, but occasionally they felt also burning hot, with a sensation of excessive coldness in the epigastrium. The urine was drawn off by the catheter for many months, but latterly it passed involuntarily, as the faces did likewise. All the symptoms continued unabated in violence to the last, and the patient died in July, 1842; but retaining his intellectual faculties perfect until the last.

Trentment.—Medicine had very little influence in arresting the disease, although the treatment may have relieved the severity of some of the symptoms. The remedies consisted principally of purgatives, mercury, sarsaparilla, hydriodate of potassa, strichnia, and morphia to procure sleep or allay spass. Other means were also used, but the treat tent which appeared to produce the most berefit was active purging, and the tineture of cautharidis taken as a dirretic; at the same time that a copions discharge was kept up for many months consecutively from two large issues on the nape of the neck. Autopsy .-- Nothing particular was found in the head, excepting that the arachnoid membrane over the pons varolii adhered to the parietal layer of that tissue, and about two ounces of serum were found in the ventricles; but there was no tumor or change of structure either in the brain or in the cerebellum. thoracie and abdominal viscera were healthy, with the exception of the bladder, which was much contracted in size, and thickened in its coats, whilst the omentum, and some of the small intestines, adhered to its surface. On opening the spinal canal, the threa, corresponding to the three or four lower cervical vertebræ, was much distended; the araclmoid eavity was filled with lymph, and there were adhesions of the membranes to the chord, which appeared firmer at the anterior than at the posterior portion, and the parts were inseparable. The chord itself was longer than usual at this particular point, felt soft and pulpy to the touch, and on being divided it was found to be in an the Pharm, Borr. The salt of the Pharm, nal to be in the dark in matters relating to

almost diffluent state, infiltrated with serum, but of a natural colour. For the extent of half an inch above this point the chord exhibited a dusky red colour, but there was no difference observable betwixt the two columns, both being alike softened and discoloured; the parts above and below being perfectly healthy, and of a natural appearance.

EXTERNAL APPLICATION OF CROTON OIL. —M. Bouchardat recommends a plaister, used by Chomel at the Hotel Dien; and which is thus prepared:-Four parts of diachylon plaister are melted at a very gentle heat, and while it is half liquid, one part of croton oil is mixed with it, and the mixture is then spread in a thick layer on calico. Pieces eut from this may be applied to the skin like ordinary sticking-plaister. They quickly produce an active irritation.

DEATH FROM THE BITE OF A FLY.-A tanner, aged 62, living at Saint Maurice, died in consequence of being bitten by a fly. insect, which was of the most venomous kind, produced a malignant pustule. The face which was the part bitten, first swelled up; and afterwards the whole of the body.

LIQUUR TARAXACI.-The following is the formula: Dandelion roots, perfectly clean, dried, and sliced, 18 onness. Infuse for 24 hours in a sufficient quantity of cold distilled water to cover them. Press and set aside, that the fecular may subside; decant and heat the clear liquor to 180 deg. F., so as to coagulate the albumen; filter the liquid whilst hot, and evaporate in a drying room, or by means of a current of warm air (a water or steam bath will not succeed so well), until the product shall weigh 1t ounces. To this must be added 4 ounces of rectified spirit. Should the roots not have been perfectly cleansed, the product must be digested with pure animal chareoal. If properly prepared, Liquor Taraxaci resembles in colour pale Sherry, and possesses the acrid taste of the fresh root in an emineut degree. The dose is from one to three fluid

HEMOSTATIC WATER OF MONTEROSSI. M. Gibourt gives in the Journal de Chimie Medicale, the formula of the hemostatic or styptic water of Dr. Monterossi of Naples; it is said to be a most successful application in all kinds of hamorrhage. Mentha piperita; memordica balsamina; tenerium marum; acorus calamus; origamum dietaunus; aa. 250 grammes; nepeta cataria; mentha pulegium; rosmarinus officinalis; salvia officinalis; Diotis candidissima; empatoria cannabinum; lanicula europea; achillea millefolium; erythrea centaurium; cupressus sempervirens; rhus coriaria; plantago major et lanceolata; urtica dioica; quereus robur; symphitum officinale; polygonum bi-tortum; tormentilla ereeta; hæmatoxylum eaunpechianum; pix nigra; boletus laricis; aa. 1000 grammes. These substances well pulverized are placed in a retort, and sprinkled with water. In the course of 48 hours, a fresh supply of liquid is to be added, and distilled slowly to two thirds of its quantity. The product is to be preserved in closely stoppered bottles. The liquid remaining in the retort may be filtered through paper and evaporated to the consistence of extract. This may either be dissolved in water, or in alcohol; it is, however, less soluble in the latter.

Officient loding of Potassiem usually centains, according to Wochler, indate of potassa and carbonate of potassa, more especially that iodide which is furnished by manufacturers on the large scale. Herzog has shewn the composition of that prepared according to

Hanov, frequently contains also iodate of potassa, since it is only completely reduced by the long-continued action of sulphuretted bydrogen. The best method is, by decomposing the iodide of iron with carbonate of potassa at a boiling temperature. The difficulty is, to hit the precise point of decomposition, so that neither iodide of iron nor carbonate of potassa may remain in excess. The latter fault is easily amended by the addition of hydriodic acid.

Poisoning by Snates.-A family of peasants living in the commune of Clermont, near Toulouse, fell a sacrifice to poisoning by snails. The physician who attended them, communicated the following details to the Journal de Toulouse,-From what I collected concerning the circumstance which preceded the disease, and those which accompanied it, and from the symptoms which I myself witnessed, I had no difficulty in recognising a case of poisoning like those occasioned by narcotico-acrid vegetables, such as belladonna, hyoseyamus, thornapple, &c. No doubt remained in my mind as to the cause of this terrible disease, as soon as I knew that the snails eaten had been colleeted in the bushes, called in French redout, but in the patois of the country roudout (Coriatia myrtifolia.) Every one knows that the teaves and young shoots are a poison to the domestic animals which browse on them, and that they kill them, after causing giddiness and a kind of epilectic attack; but a fact which is not known is, that the flesh of these animals may occasion the greatest danger, and even death itself Symptoms like those which I have just witnessed, are rare; but it is common to see among our peasants indisposition caused by smalls, which comes from their eating them as soon as they are gathered. The example of the ancient Romans should be followed, and these animals should not be brought to table until they have been kept six months or a year, feeding them on bran and wild thyme. This is the way also to make them fatter and more sa-

MORTALITY IN ENGLAND AND WALES.- Λs compared with the average number of deaths in the same quarter of the four precedling years, 1838, 1839, 1840, and 1841, there is an increase in the past quarter of no fewer than 2,471 deaths, the average for those four years having been 36,595, while the deaths in the past quarter have been, as above stated, 39,069.

ROYAL COLLEGE OF SURGEONS LONDON.

List of gentlemen admitted members on Friday, November 11th, 1842:-

H. A. Arden, G. F. Hewson, H. Vidal, J. H. Kimbell, T. L. Hodson, G. Cole, A. Adye, J. P. Bourne, W. Simpson.

MEDICAL NEWS.

MIDDLESEX HOSPITAL. - Mr. Herbert Mayo has resigned the surgeonship to this hospital, and Mr. Shaw the assistant surgeonship. The candidates for Mr. Mayo's place, are Mr. Shaw, Mr. De Morgan, and Mr. Erasmus Wilson.

THE PHARMACRUTICAL SOCIETY, -- That we are not, says the Chemist, by many hundreds, the only parties dissatisfied with and disgusted at the conduct of those entrusted with the management of the Society's affairs, we can amply attest. . We have too long conducted our jourchemists and the conductors of the pharmacentical farce. We know of the prevalence of the greatest distrist, and let next time of subscription tell how justly we have stated the general feeling. We certainly agree with them that the intended reduced subscription of one gninea per annum will be a much nearer approach to the real value of the transactions than the present tax. Can it be supposed,is it probable,-that we should first suggest and advise the formation of a society, and then seek to injure or destroy it? Why have we withdrawn our support? Because its affairs are confided to jobbers and ignoranuses.

ADVERTISEMENTS.

TR. STEGGALL continues his LECTURES and EXAMINATIONS for the College of Surgeous and Apothecaries' Hall, also for the other Medical Boards. His fees are for an unlimited period, consequently punds would derive increased benefit by entering at the commencement of their studies, thus obtaining a Tutor to direct them during their entire residence in Tondon Dr. S. is quarte withing to guarantee their success. Hours of attendance, from Ten (III One, a.m., and Say to Nane, p.m., in Chambers, at No. 17, Bloomshury quare, and at other hours, at Private Re 1 dence, 2, Southampton-street, Bloomsbury-square.

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THE MEDICAL TIMES

A Journal of English and Foreign Medicine and Medical Affairs

No. 166, Vol. VII.

LONDON, SATURDAY, NOVEMBER 26, 1812.

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COURSE OF LECTURES ON THE THEORY AND PRACTICE OF MEDICINE.

Delivered by C. J. B. WILLIAMS, M.D., P.R.S., Professor of the Practice of Medicine, and of Chine if Medicine, at University

GENTLEMEN,-The divisions of inflammation that I mentioned at the conclusion of my last lecture are entirely arbitrary. It is, however, useful to have some general terms by which to characterize the leading features of a disease, and as the terms acute or stheme, and sub-acute or asthenie, indicate pretty charly the nature of an inflammation, it is well to retain them. These words are descriptive of intensity rather than of duration, and therefore the epithet chronic is used to imply the length of time that an inflammation has continned, and generally speaking a chronic disease is also subaente, for an acute inflammation, could scarcely exist long enough to be called chronic, for it would either be deprived of its aenteness by active treatment, or it would prove fatal, or assume other characters besides those of simple influence tion. The products and terminations of acute and chronic inflammation differ considerably. We shall now turn our attention to some of the terminations of inflaminatory action. The first of these to be noticed, is resolution, by which is meant a cessation of the inflammation and its effects. This is properly a termination, because all is at an end, It is resolved, by a cessation of the increased action of the arteries,—that is to say, it ceales to be true inflammation. This resolution may be effected by blood-letting, which diminishes the force of the circulation, and, by removing the element determination, reduces the inflammation to convestion. An example of this is seen after active inflammation in the eye where the vessels remain congested, and only require the application of astringents in order to put an end to the whole process. Sometimes, however, the congestion is removed with the determination, the tone of the capillaries being predily restored. Even slight inflammations of auteous membranes may be removed by stimulants and this is effected by the removal of the congestion. The resolution is sometimes accompanied by effusions or humorrhages. Slight or subacute inflammation may go on for a considerable time, and yet be afterwards resolved. Sometimes it may be resolved in one part, and then attack an adjoining part, as though there was something moveable in it, and could have its effects transferred from one set of vessels to another, as in crysipelas; this is supposed to ariseffrom continuity of texture; so also catarrhal inflammations and affections generally of the air passages, there is a great tendency to spreading. The same is the case in the urinary passages; for instance, inflammation commencing in one kidney may proceed down the areter to the bladder, and thence along the opposite prefer to the other kidney. In inflammation of serous membranes, there is also a proneness to extension. In

the nuceus membrane of the intertions inflammation is generally more circumscribed. Again, we find that inflammation is transferred under other circumstances than can be accounted for on the supposition of continuity; thus it may be transferred from the costal to the pulmonary pleura, and the communication is said to arise from contiguity of texture. This may have nothing to do with resolution, for both membranes may remain inflamed together. It is often difficult to say how the inflammation is transferred. Again, inflammation sometimes ceases by metastases; this is particularly the case in fibrous membranes. Thus in rhenmatism, there may be efficient into a joint which will addenly disappear and present itself in another joint, and yet no trace whatever remain in the previous seat. This transference must depend upon a marbific matter, which is carried about in the circulation, and deposited in various parts. A similar phenomenon is seen in the transference of inflammation from the purotid gland to the testicle. In females, the bree typare affected under similar circumstances. This afternation would seem to arise from analogy in the structure of the different parts. There is a mistake not unfrequently made with regard to the occurrence of Pericarditis as a result of metastatis in cases of rheumatism. Now, in the majority of instances, there is no true metastasis at all, but simply a roweistenes of inflammation in the pericardium and other parts. If the inflatamation was sed entirely in its first seat, and then attacked the brain or heart alone, it would constitute genuine metastasis, but you will find thi rather a rare occurrence.

Resolution, when complete, is marked by the subsidence of all the inflammatory symptoms, viz., heat, redness, swelling, &c.; but there is sometime . and, indeed not ancommonly a continuation of the irritation of the nerves of the part, especially if the subject be of the nervous temperament -the nerves thus appear to retain the irritation after the vessels have entirely recovered their previous condition. Another point of very considerable importance in connection with the reselution of inflammation, is the constitutional accompaniment that is generally observed to present itself, viz., the occurrence of what is termed a "critical discharge, That there commonly is some discharge attending resolution is a fact familiar to every eareful clinical observer. -- The nature of the discharge may vary—sometimes it consists of per piration - ometimes it is a diarrhiea, the evacuations containing matters of a greenish or dark brown appearance. Sometimes hemorrhage is observed to happen at the time of resolution, but the most frequent of any is the deposition in the urine of what is known as lateritions sediment, consisting of the lithate and purporate of anomonia. The question will here naturally engagest itself to you, whether these discharges, for in tance, the deposits found in the urine, are the cause of the resolution, or merely the effects, and indication; that the change has occurred? There is no doubt that during fever the secretions are diminished, the capillaries become constringed, and hence the nrine is senity and high-coloured, and I think it is reasonable to suppose that the discharge just alluded to may simply be the throwing out from the system of the accumulated matters - in fact, a resumption of function. These augmented secretions are, as I told you, called "critical." They indicate the state of the disease, and being satisfactory evidences should always be regarded with attention.

A record termination of inflammation generally commerated, is effect n. Now, it will be obvious to you that efficient is, strictly speaking, only a product of inflammation, and not necessarily a termination; for, although in many cases, the occurrence of effusion does relieve the blood-vessels,

termination and congestion do continue, the in-Hammation may, notwithstanding the effusion, still go on. We have an example of inflammation terminating with effusion in the case of pleurisn, where lymph being effused, and becoming organized, and forming boose and harmless adhesion. the cure may be perfect. But we shall find that, in most instances, the product itself that is effused gives rise to unque stionable mischief. Suppose, a : an illustration of this, that, in a case of pericarditis, a large quantity of lymph is thrown out, which becomes organized, and afterwards contracts, is it not clear that, although no inflammation may continue, the function of the heart is in almost certain danger of being serion by impaired by the sharbling of the commuted product? So, again, if the endocualium is the seat of inflammation, the action of the valves of the heart is sure to be more or less impaired. The some principle is equally applicable to the lungs, and also to the intestines; in the case of the latter, the lymph, by the formation of adhe ions, impedes the peristaltic action. The injury done is likely, of course, to be yet more serious if, in addition to the effusion of the lymph, the inflammation should continue. Now, there are, as I intimated in a former lecture everal varieties of lymph. If not absorbed, it must either be organized, or remain as a foreign body. In acute inflammations in otherwise healthy subjects, the lymph may be organized so as to differ little from the tissues with which it is in contact, and may be productive of very little in convenience. When inflammation is he sacute, and especially if the patient does not possess, a strong conditution, the lymph that is three governments. will be of a *large* character, and differ mater dif-from the tissue in which it is produced; it we can have a tendency to contract and become rigid; then also less vascular than that before-mentioned, a > 201 interferes sometimes to a very remarkable degree with the mobility, and con equently with the function, of the part. The lymph deposits a upon seriors membranes sometimes becomes exceedingly hard and rigid it may assume quite a #bro-cellular consi tence, and, indeed, so great is the induration in one cales, that it appears even filmo-cartilaginous. Sometimes the deposition presents a granular form,—this is particularly obcryed on the peritoneum: such collection may be called tubercular secretions. The lungs exhibit similar products of consolidation, which constitute permenent obstructions. Confractile lymph is found also to occur in the liver, so that, occusionally, the whole organ may become so completely Jurunk as to have its functions almost entirely interrupted. Inflammation in fibrous membranes produces this kening-this result is seen frequently in the valves of the heart. So, also, on the filtrons tione investing hone, lymph is first deposited, and afterwards osseous matter; hence arise node.

Effusion seems to have a tendency to lower the character of inflammation, for it becomes less acute after effusion has taken place; this is slown by the fact of the matter sub-equently thrown out presenting a enroly appearance, proving the tymph to be degenerating in its quality. This degradation is well even in cases of chronic peritonitis. These lower products, being little capable of orcanization, are much more mischieved: than those of a higher character. We have an instance of a low secretion in empyema, which con ists of a mixture of curdy lymph and secum.

On micron: surfaces the matter thrown out does not, as I before impressed upon you, cause eithe-The efficient is of a mixed nature, and looks thick and opaque. Resides what is poured ant upon the surface, some is retained the pores, and occasions thickening and stricture; currence of effusion does relieve the blood-vessels. — thus, in the intestines, bladder, urethra, &c., we and the inflammatory action ceases, yet if the defind strictures produced by inflammation. This

thickening occurs principally in the sub-mucous

The symptoms, or, more correctly, the signs, that attend the occurrence of effusion, are externally, increased swelling and hardness. If the effusion is internal, there are also evidences frequently to be obtained: thus, if it happen in a part that can be reached by manipulation, swelling will be discovered, and dulness on percussion will be produced, Signs of displacement of adjoining organs may also be present; as well as obstructions arising from the pressure. The fever may continue nearly as before the effusion occurred, although, generally, the strength of the pulse, and the other constitutional symptoms, become somewhat diminished-but the real functional disturbance is often greatly augmented; for example, in the lungs, after effusion has taken place, the dyspuca is almost inevitably aggravated. We may, perhaps, ay, that pain is usually lessened when effusion occurs, although in some cases it is undoubtedly increased, as where the matter effused is situated under tense membranes.

Effasion of pus is much more a termination of inflammation than the effusion of lymph, for pus is developed at the expense of the vessels, and considerably relieves. In abscess, where the inflamed part becomes destroyed, and pus is thrown out, which, by pressure, causes absorption of tissue, we see how the inflammation is resolved -many of the inflamed vessels are removed altogether. The mucous membrane lining the urethra is often greatly relieved by the secretion of pus. When suppuration is established, constitutional weakness is generally substituted for the excitement that previously existed. When the pus is collected in an abscess, as in parenchymata, part of the tissue is destroyed, and its place occupied by the purulent secretion. At the commencement of suppuration, there is usually shivering, or, as it is called, a rigor-there are also other symptoms that commonly characterize the formation of pus, with which, I presume, you must be acquainted.

Parts around an abscess may still be the seat of "Inflammatory action, because the collection acts as a progreign body. Most relief is experienced by suppuration when it is circumscribed: the matter, by its presence, causes absorption in one direction or another; and it generally progresses in the direction in which the tissues are most yielding. In the lungs, and some other parts, there is no circumscription, but the matter is infiltrated throughout the texture. Ab cesses occurring internally may produce various accidents on their way to the surface of the body. The protective inflammation that occurs is beautifully adapted to guard it, and prevent its opening into adjoining parts, for lymph is thrown out which forms a boundary to the mater; -thi: protection is also effected by;the formation of adhesion between different membranes. It is also of the greatest importance that the system, generally, should be preserved from the influence of the pus, for, when it is diffused, the most baneful consequences are produced.

A New Cranial Saw, -M. Bertherand has invented a saw for cutting the cranium, in examinations after death, and calls it a cranial explotome. It consists of a saw, coneave at one edge and convex at the other, which, by means of a seriew, can be turned in its long bandle, so as to present either edge at will in the direction for cutting. It is also fitted with a cupper conductor, which can be worked in the same way, and fixed at any required distance from the edge, so as to prevent the saw from passing too deeply through the skull.

REMARKABLE CASE of Thoracle Fister, A.—A patient labouring under this malady described in a German Journal is a clarionet-player, who notwithstanding this diseased state, cm follow his avocation and take long walks. He closes the opening in his side with a cork; and as often as he ancorks himself, air mixed with pus passes freely in and out through the aperture.

ART OF COPYING ENGRAVINGS OR ANY PRINTED CHARACTERS FROM PAPER, ON METAL PLATES, &c.

By Mr. ROBERT HUNT.

The Journal of the Academy of Sciences of Paris, for the 18th of July, 1842, contains a communication made by M.Regnault, from M.Moser, of Konigsberg, Sur la formation des mages Daguerriennes;" which he announces the fact, that, "when two bodies are sufficiently near, they impress their images upon each other." The Journal of the 29th of August The Journal of the 29th of August contains a second communication from M. Moser, in which the results of his researches are summed up in twenty-six paragraphs. From these I select the following, which alone are to be considered on the present occasion: - "All bodies radiate light even in complete darkness.—This light does not appear to be allied to phosphorescence, for there is no difference perceived whether the bodies have been long in the dark, or whether they have been just exposed to daylight, or even to direct solar light.-Two bodies constantly impress their images on each other, even in complete darkness.—However, for the image to be appreciable, it is necessary, because of the divergence of the rays, that the distance of the bodies should not be very considerable.—To render the image visible, the vapour of water, mercury, iodine, &c., may be used. There exists latent light, as well as latent heat."

The announcement at the last meeting of the British Association of these discoveries (Athen. ante, p. 687), naturally excited a more than ordinary degree of interest. A discovery of this kind, changing, as it does, the features, not only of the theories of light adopted by philosophers, but also the commonly received opinions of mankind, was more calculated to awaken attention than anything which has been brought before the publication of 'Daguerre's beautiful Photographic process. Having in timted a series of experiments, the results of which appear to prove that these phenomena are not produced by latent hear, I am desirons of recording them.

I would not be understood as denying the absorption of light by bodies; of this I think we have abundant proof, and it is a matter well deserving If we plack a Nasturium when the sun is shining brightly on the flower, and carry it into a dark room, we shall still be enabled to see it by the light which it emits. The human hand will sometimes exhibit the same phenomenon, and many other in tances might be addreed in proof of the absorption of light, and I believe, indeed, of the principle that light is latent in bodies. I have only to show that the conclusions of M. Moser have been formed somewhat hastily, being led, no doubt, by the striking similarity which exists between the effects, produced on the Daguerreotype plates under the influence of light, and by the juxta-position of bodies in the dark, to consider them as the work of the same element.

1. Dr. Draper, in the Philosophical Magazine for September, 1840, mentions a fact which has been long known, that "if a piece of very call clear glass, or what is better, a cold polished metallic reflector, has a little object, such as a piece of metal, laid on it, and the surface be breathed over once, the object being then carefully removed, as often as you breathe again on the surface, a peetral tignre of it may be seen, and this singular phenomenon may be exhibited for many days after the first trial is made."—Several other similar experiments are mentioned, all of them going to show that some mysterious molecular change has taken place on the metallic surface, which occasions if to condense vapours unequally, -2. On repeating this simple experiment. I find that it is necessary for the production of a good effect, to use dissimilar metals; for instance, a piece of gold or platina on a plate of copper or of silver, will make a very decided image, whereas, copper or silver on their respective plates give but a very faint one, and bodies, which are bad conductors of heat, placed on good conductors, make decidedly the strongest impressions when thus treated. 3, 4

placed upon a well polished copper plate, a sovercign, a shilling, a large silver medal, and a penny. The plate was gently warmed by passing a spirit lamp along its under surface; when cold, the plate was exposed to the vapour of mercury; each piece had made its impression, but those made by the gold and the large medal were most distinct; not only was the disc marked, but the lettering on each was copied. - 1. A brouze medal was supported upon dips of wood, placed on the copper, oneeighth of an inch above the plate. After mercarrialization, the space the medal covered was well marked, and for a considerable distance around the mercury was unequally deposited, giving a shaded border to the image,-5. The above coins and medals were all placed on the plate, and it was made too hot to be handled, and allowed to cool without their being removed; impressions were made on the plate in the following order of intensity-gold, silver, bronze, copper. The mass of the metal was found to influence materially the result; a large piece of copper making a better image than a small piece of silver. When this plate was exposed to vapour, the results were as before (3, 1). On rubbing off the vapour, it was found that the gold and silver had made permanent impressions on the copper.-6. The above being repeated with a still greater heat, the image of the copper coin was, as well as the others, most faithfully given, but the gold and silver only made permanent impressions .- 7. A silvered copper plate was now tried with a moderate warmth (3). Mercarrial vapour brought out good images of the gold and copper; the silver marked, but not well defined.—8. Having repeated the above experiments many times with the same results, I was desirous of ascertaining if electricity had any similar effect; powerful discharges were passed through and over the plate and discs, and it was subjected to a longcontinued current without any effect. The silver had been cleaned off from the plate (7); it was now warmed with the coins and medals upon it, and submitted to discharges from a very large Leyden jar; on exposing it to mercurial vapour, the impressions were very prettily brought out, and, strange to say, spectral images of those which had been received on the plate when it was silvered (7). Thus proving that the influence, whatever it may be, was exerted to some depth in the metal.-9. I placed upon a plate of copper, Idue, red, and orangecoloured glasses, pieces of crown and flint glass mica, and a square of tracing paper. These were allowed to remain in contact half-an-hour. The space occupied by the red glass was well marked, that covered by the orange was less distinct, but the blue glass left no impression; the shapes of the flint and crown glass were well made out, and a remarkably strong impres ion where the crown class rested on the tracing paper, but the mica had not made any impression. -10. The last experiment repeated; after the exposure to mercurial vapour, heat was again applied to dissipate it, the impression still remained.—11. The experiment repeated, but the vapour of iodine used instead of that of mercury. The impressions of the glasses appeared in the same order as before, but also a very beautiful image of the mica was developed, and the paper well marked out, showing some relation to exist between the substances used and the vapours applied.-12. Placed the glasses used above (9, &c.), with a piece of well smoked glass, for half-an-hour, one-twelfth of an inch below a polished plate of copper. The vapour of mercury brought out the image of the smoked glass only. 13. All these glasses were placed on the copper and slightly warmed; red and smoked glasses gave, after vaporization, equally distinct image, the orange the next, the others left but faint marks of their forms; polishing with Tripoli and putty powder would not remove the images of the smoked and red glasses,-14. An etching, made upon a smoked etching ground on glass, the copper and glass being placed in contact. The image of the glass only could be brought out .- 15. A design cut out in paper was pressed close to a copper plate by a piece of glass, and then exposed tva gentle heat; the impression was brought out by the vapour of mercury in beautiful distinctness. Cin endeavouring to rub off the vapour it was found that all the e parts which the paper covered

For this interesting paper we are indebted to our able contemporary, the Attendom.

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MEDICAL TIMES.

amalgamated with mercury, which was removed from the rest of the plates; hence there resulted a perfectly permanent white picture on a polished copper plate.—16. The coloured glasses before named (9, 12), were placed on a plate of copper, with a thick piece of charcoal, a copper coin, the mica, and the paper, and exposed to fervent sun-Mercurial vapour brought up the images in the following order -smoked glass, erown glass, red glass, mica beautifully delineated, orange glass, paper, charcoal, the coin, blue glass; thus distinctly proving, that the only rays which had any influence on the metal, were the caloritic rays This experiment was repeated on different metals, and with various materials, the plate being exposed to steam, mercury and iodine; I invariably found, that those bodies which absorbed or permitted the permeation of the most heat, gave the best images, The blue and violet rays could not be detected to leave any evidence of action, and as spectra imprinted on photographic papers by light which had printed on pholographic papers by figurwhich had permeated these glasses, gave evidence of the large quantity of the invisible rays which passed them freely, we may also consider those entirely without the power of effecting any change on compact simple bodies.—17. In a paper which I published in the Philosophical Magazine, for October 1849, 1 mentioned some instances in which I had copied printed pages and engravings on iodized paper, by mere contact and exposure to the influence of the calorific rays, or to artificial heat. I then, speculating on the probability of our being enabled by some such process as the one I then named to copy pictures and the like, proposed the name of THER-Moon Veny, to distinguish it from Photography.-18. I now tried the effects of a print in close contact with a well-polished copper-plate. When exposed to mercury, I found that the outline was very faithfully copied on the metal .- 19. A paper ornament was pres ed between two plates of glass, and warmed, the impression was brought out with tolerable distinctness on the under and warmest glass, but searely traceable on the other.-20. Rose leaves were faithfully copied on a piece of tio plate, exposed to the full influence of sunshine, but a nuch better impression was obtained by a prolonged exposure in the dark .- 21 With a view of ascertaining the distance at which bodies might be copied, I placed upon a plate of polished copper, a thick piece of plate glass, over this a square of metal, and several other thines, each being larger than the body beneath. These were all covered by a deal box, which was more than half an inch distant from the plate. Things were left in this potion for a night. On exposing to the vapour of mercury, it was found that each article was copied, the bottom of the deal box more faithfully than any of the others, the grain of the wood being imaged on the place.-22. Having found, by a series of experiments, that a blackened paper made a stronger image than a white one, I very anxiously tried to effect the copying of a printed page or a print. 1 was partially successful on several metals, but it was not until I used copper-plates annalgamated on one surface, and the mercury brought to a very high polish, that I produced anything of good promise. By carefully preparing the analgamated surface of the copper, I was at length enabled to copy from paper line-engravings, wood-cuts, and lithographs, with surprising accuracy. The first spe-cimens produced (which were submitted to inspection), exhibit a minuteness of detail and sharpness of outline quite equal to the early daguerrotypes and the Photographic copies, prepared with chloride of silver.

The following is the process at present adopted by me, which I consider far from perfect, but which affords as very delicate images. A well-polished plate of copper is rubbed over with the nitrate of mercury, and then well washed to remove any mtrate of copper which may be formed; when quite dry, a little mercury taken up on soft leather or linen, is well rubbed over it, and the surface worked to a perfect mirror. The sheet to be copied is

placed anonthly over the mercurial surface, and a sheet or two of soft, clean paper being placed upon it, is pressed into equal contact with the metal by a piece of glass, or flat board; in this state it is allowed to remain for an hour or two. The cime may be considerably shortened by applying a very gentle heat for a few minutes to the under surface of the plate. The heat must on no account be so great as to volatilize the mercury. next process is to place the plate of metal in a closed box, prepared for generating the vapour of mercury. The vapour is to be lowly evolved, and in a few seconds the picture will begin to appear; the vapour of mercury attacks those parts which correspond to the white parts of the printed page or engraving, and gives a very faithful but somewhat indistinct image. The plate is now removed from the mercurial box, and placed in one containing iodine, to the vapour of which it is exposed for a short time; it will soon be very evident that the iodine vapour attacks those parts which are free from mercurial vapour, blackening them. Hence there results a perfectly black picture, contrasted with the grey ground formed by the mercurial vapour. The picture being formed by the vapours of mercury and iodine, is of course in the same state as a Daguerrotype picture, and is readily destroyed by rubbing. From the depth to which I find the impression made into the metal, I contidently hope to be enabled to give to these singular and beautiful productions a considerable degree of permanence, so that they may be used by engravers for working on. It is a curious fuet, that the vapours of mercury and of io line attack the plate differently, and I believe it will be found that vapours have some distinct relation to the chemical or thermo-electrical state of the bodies upon which they are received. Moser has observed this, and attributes the phenomena to the colours of the rays, which he supposes to become latent in the vapour on its passing from the solid into the more subtle form, 'I do not, however, think this explanation will agree with the results of the experiments. I feel convinced that we have to deal with some thermic influence, and that it will eventually be found that some purely calorific excitement produces a molecular change, or that a thermo-elec-trical action is induced, which effects some change in the polarities of the ultimate atoms of the solid,

These are matters which can only be decided by a series of well-conducted experiments. Although attention was called to the singular manner in which vapours disposed themselves on plates of glass and copper, two years since by Dr. Draper, Prof. of Chemistry at New York, and about the same time to the caloritic powers of the solar spectrum, by Sir John Herschel, and to the influence of heat artificially applied, by myself (17), yet it is certainly due to M. Moser of Konisberg, to acknowledge him to be the first who has forcibly called the attention of the scientific world to an inquiry which promises to be as important in its results as the discovery of the electric pile, by Volta.

Calomel in Ophthalmia Neonatorum -Calomel in this case is spoken of by German writers as very successful. The manner of introducing the calomel into the eye is by means of a camel's hair pencil loaded with the powder, which is shaken from it into the eye, while an assistant separates the lids. In the freatment of the ophthalmia neonatorum this remedy may be had recourse to as soon as the first traces of the disease appear, and its employment once daily is then in general sufficient, After the lapse of from half an hour to two hours, according to the quantity of the secretion, the eye may be washed from the powder, and the ordinary rules as to cleanliness be attended to. In severe cases the application may be repeated twice every day; but when the disease is mild a single application daily suffices to effect a cure in from four to ten days, if the remedy had been had recourse to from the The more severe and intractable forms of the disease do not appear to have been

LECTURES ON CHEMISTRY.

By JOHN SCOLIFREN, M.D., Lecturer on Cheon (by a) the Alder safe wheel of Medicine.

I purpose in this lecture continuing our exam nation of the chemical agencies of voltaic electricity and, as a necessary prolude to this subject, I will remind you, that when speaking of chemical attraction or affinity, I stated we had no means whatever of e-timating its real amount; but it was most rational to assume, that when many compounds were formed by the union of two bodies in several proportions, the most permanent body, the one in which the form of affinity was strongest, would be constituted of single atoms. Hence it would follow, according to the electro-chemical theory of Davy, that bodies of this class, and which are known to chemists under the name of proto-compounds, as protocides, protochlorides, and the like, should, amongst others, require the greatest amount of voltaic energy for their decomposi-Almost every experiment that we can devise appears to demonstrate that the elements of proto-compounds are held together with greater force than their corresponding associates. I take (as an example almost at random), the two principal compounds of lead and oxygen—the protoxide and the peroxide. I heat the former, without producing any change in its constitution, but by, heating the latter, I drive off oxygen, and it is reduced to the condition of protoxide. This experiment shows that one is more stable than the other, the protoxide being most so.

Entering, then, upon the study of voltaic decomposition, with such ideas as this experiment natu rally gives rise to, we should not expect that protocompounds would be very easily decomposed; certainly not with greater case than their associates; yet Faraday has demonstrated that the former alone are capable of decomposition by the direct or primary agency of voltaic electricity. Other secondary agencies frequently modify the result a good deal, and they misled former experimenters, but we shall do well to disregard them altogether. Remember, then, that only proto-compounds, so far as we know, are capable of direct voltaie decomposition; although we have every reason to believe that in the constitution of such, there is lavished the very maximum of affinity. So universal is this result on known proto-compounds, that we sometimes appeal to it for determining a doubtful case. Thus, it was doubted, and is now by some, whether the liquid water be actually a proto-compound or otherwise; but it is easily decomposed by voltaic electricity, and there-fore to be in accordance with the best analogies, we must pronounce it a proto-compound.

I need searcely indicate how diametrically opposed these results are to the deductions of ${
m Sir}~\dot{
m H}_*$ Davy's theory; which assumes that every compound should be decomposable by a sufficient amount of voltaic force, and first of all, those compounds which have the weakest affinities. This discovery was made by Faraday, who also proved that the same amount of electricity always decomposed equal equivalent or atomic quantities of different decomposable substances, and that hence there might be indicated electrical as well as che-mical equivalents. The remark will be more evident after an examination of the accompanying

9 grs. of water are $\left\{8\,\mathrm{grs.}\,\mathrm{oxygen} + 1\,\mathrm{gr.}\,\mathrm{hydrogen}\right\}$

 $\frac{37 \text{ grs. of hydro-}}{\text{chloric acid, of}} \left(\frac{36}{36} \text{ ... chlor.} + 1 \right)$.. ditto

15 grs. chloride of 36 , ditto +108 , silver 230 grs. of jodide of 103 ,, jodine +101 ,, lead

Now any electrical force which is capable of decomposing 9 grains of water into its elements, will also decompose 37 grains of hydrochloric acid, 115 grains of chloride of silver, and 230 grains of indide of lead. If we insist upon the absolute identity of chemical and electrical agencies, we benefitted by the local employment of calomel. are led to a very curious deduction—namely, that

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^{*} The first faithful copy of the lines of a copperplate engraving was obtained by Mr. Cantabrana, who has since succeeded in procuring some tolerable specimens on amalgamented copper, which cannot be rubbed off.

the elements of all compounds decomposable by voltaic electricity are united with equal force; in other words, that there exist no difference, between the amount of their chemical affinities, because we have seen that the same amount of electrical force will separate into their respective elements 9 grains of water, 37 of laydrochloric acid, &c. Thus, so far as relates to proto-combinations, we should accept the philosophy of Berthellot, who believed that the artractions existing between the elements of compounds were all equal; or, more properly peaking, that there was no such force as chemical attraction in existence,

Besides demonstrating the fact, that there might be instituted electro-chemical equivalents, and that none but proto-combinations were susceptible of voltaic decomposition, Faraday proved by a series of well-concerted experiments, that the poles or ends of a battery had (in the correct acceptation of the term) no attractive force; that elementproceeded thither not on account of an attractive influence nearly soliciting them, but on account of a force generated within themselves impelling or determining them: that in point of fact, such hodies, during decomposition, were not to be reourded as extraneous to the battery, and merely neted upon by it, but that they actually formed part of the battery, and necessarily reciprocated any force recognicable in any other part of that

Finding the theory of Davy imporfect, and being solicitors lest these imperfections should be perpetiented by term in use, Dr. Faraday has introdueed certain others into philosophical karences, which I will now describe. In the first place then, cince all compounds are not decomposable by direet voltrie influence, it would be well to coin a term, indicative of those which are: the term electrolyte is concise and expressive, and indeed answers every purpose. It originates in two Greek words, signifying amber, and to I wan, or a pr rate; and its indication are sufficiently plain with out any comment. The term electrol, is expressed the act of volta-electrical decomposition. articly associated as a the term of pole with an arria rive influence, Paraday very properly object to it. He maintains that the cod, or so eithed poles of a voltaic arrangement are merely the door, or ways through which the electricity moves, and that if certain bodies are found near either one or the other, it is not been a they are attracted there; but they are determined in that dre time, and can get no further on account of the colid and univiolding acture of the ends or poles. This, bariday verified by making the so called poles of liquid or yielding materials, in which eare the Thement of a decomposed compound proceeded on till they in (with some opposite solid. For these recess the term electrode was invented from a Gresk word lienifying away. Furthermore, the one fluid theory of Franklin was adopted as convenient in these care, and it was as uned that electricity entered upon its convicuous to the positive end, and terminated it at the negative the rising and setting surveye the idea, which suggested them elves to Faraday a canalogan to this care, therefore, he called the positive or emitting end, the mode, and the neestive, or receiving end, cit-ode, or cithode, downward. Assin. the propriety of the terms electro-politive and electro-negative was disputed, inclanach a bodie could not be proved to peres unturilly either kind of electricity. Elements which were equable of being determined to either end of a voltage arrangement, he called ions from the Greek to a ... This we have anions, or bodie which so to the positive pole (electro negative), and exchion or electro politives. I call your attention to a table of simple and compound ions, that it, bodie which have been proved capable of being separated from their compounds by voltage accurey

1.35.1......

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Oxygen Chlorine Iodine Bromine Eluorine Cyanos en Sulpharie acid	Nitrie held Chlorie held Phosphorie held Carbonic held Pornele held	O ,alic acid Sulphur Selenium

CATIONS, OF CATHIONS

Hydrogen	Cadminin	Lithia
Potassiniu	Cerium	Baryta
Sodium	Cobalt	Strutia
Lithium	Nickel	Lime
Barinne	Antimony	Magne ia
Strontian	Bisonth	Alnwina
Calcino	Merenry	Protoxides—ge-
Magnesium	Silver	nerally
Manganese	Platinum	Quinia
Zine	Gold	Cinchonia
Tin		Morphia
Legid	Ammonia	Vegeto alkulis—
Iron	Potassa	generally
Copper	Soda	

Carbon, phosphorus, nitrogen, silicon, boron, and aluminium, have not yet been experimentally proved to be ions, although malogy leads us to uppose they are. Among a compound bodies, same uncertainty exists in regard to the conpounds silies and admains. On account of these doubtful case, it will be seen that, although the terms, union and cathion, are more correct them those of electro-positive and electro-negative, yet for the purposes of chemical classification, the latter are, perhaps, more generally neeful, inamuch as no sub-tance can be called an anion except it has been proved capable of going to the anode, and vice reverse whereas strong analogies have been thought sufficient to entitle it to the name of electro-negative. In all cases of voltain decomposition two dements are determined in eertain directions, one to either end of the battery inppering water to be the example, we find by drogen to be liberated at the negative or cathode and oxygen at the other. Now, no particle of hydrogen can be liberated, without effine free a jenticle of oxygen, and no particle of oxy gen without climinating one of hydrogen; m interesting que tion mises, then, in con phenomenon what become nection with thi of the particle thus at free? It would reem. from the ultimate effects of the lettery, judeing. that the bulk of a decomposine third must be trayer ed continually by the e two kinds of particles. each going in an opposite direction, but invisibly I believe Grotthus was the first who explained this by a sumine that each simple particle of a compound. substance between the two poles or electrodes, combined with its opposite, to as continually to regenerate the compound, - a state of things which may be roughly assimilated to a continual change of partners in walking down a country dance; or, if you do not consider my illustration particularly happy, parleaps the accompanying literal one will he more fortunate. Water is composed of asycen and hydrogen, as you are aware; therefore, it may he indicated thus O H. Suppose a portion of water, about to have voltage electricity parted through it in the direction of the arrow to be indicated thus:

+ OH OH OH -

The signs 4- and - , representing the anode and enthode respectively. Then it is pre-unced that the particles, in order to brine themselves into proper polition, revolve over each other in a cycle, either right or left handed, according as the electric current might vary in direction. In this in tance the eyele would be right handed, and the particles in their intermediate condition would raid thu

+ H O O O H H

preparatory to their being brought thus

+ OH OH -

as originally; when, of course, the remaining exvectioned hydrogen would have to change profners again, and lose them as before, until all Forme decomposed In Paradas Swords, * The current is an axis of power, equal, and exerted in opposite direction, by which, in every case of a true binary compound, the molecules of one element are carried in one direction, while those of the other constituent move in the reverse convex It will have been gathered from the lecture, that the sterno cleido-mastoidens muscle of the

Faraday agrees with Wollaston in attributing the whole of Voltaic electricity to chemical action; indeed, he goes farther, and believes that every case of chemical action must give rise to electricity. If this theory be correct, we ought not to be under the necessity of referring to particular forms of apparatus for the sake of witnessing the effects of voltaic electricity, although such particular forms might be most convenient. We ought to be able to take any case of chemical action at random for this purpose, or, at all events, the upposition of our taking it ought not to seem an absurdity.

We have seen that the most powerful voltaic arrangements are those in which there are two metals and a fluid; the latter being only capable of acting upon one metal. If we dispense with the second metal we may generally have chemical action, but we destroy our voltaic arrangement. This is sati factory, for it proves that the addition of a second metal increases chemical action on the first, and we may easily imagine the forces determining combination to be so nicely balanced, that without this second metal no combination would result at all. The use of this second piece of metal in a voltaic a rangement appears to be that of restoring by its conducting power the electrical equilibrium of the other two, an equilibrium which their chemical union as immediately disturbs. Hence the more readily this equilibrium is restored, the more rapid may we suppose the chemical union to be Although the perfection of a voltage current is inured by the presence of a second metal, yet when bodies have a tendency to unite, it would be difficult, if not impossible, to prevent those currents altogether: hence we may easily suppose chemical and voltaic actions to be always simultaneous, although we cannot trace, in the majority of instances, the most perfect conditions, indicated by a Lnowledge of vedraic electricity. By availing ouralves of those conditions, however, we can generally exalt the chemical energies, although by doing the contrary to the utmost of our power, we connot always abolish them alto ether. Our time does not admit of my treating voltaic electricity more in detail. I regret my inability from this cause, to mention the numerous applications which have been made of this most wonderful agent. I cannot, however, conclude without drawing your attention to the beautiful arts of electrotype, and electro-gilding. To practice these arts with success much experience is requisite; but their theory is very easy, and may be explained in a few words; indeed, you are already aware, perhaps unconsciously, of the process to be followed. You remember the principle of action of the constant battery - how a layer of copper was canad to be deposited on the original copper! Well, if this original copper had been engraved, of course the deposited metal would have asunted the same pattern,- thus I very briefly explain to you the miture of electrotype. By acting on solutions of gold and silver we can deposit these metals; these are the processes, called respectively electro-gilding and silvering.

GENSHOT WOLLD.

SICONDARY HEMORRHACE AND LIGATERS OF THE COMMON CAROTID ARTERY

By William Smith, 1 og a om con-(Per the SAL test Lone St

PRIVATE NEWTLL, of the 1st Regiment of the British Auxiliary Legion, during an attack upon the enemy's lines in front of St. Sebastian on the 3rd, of May, 1837, was hit by a musket hall, which pierced the superciliary ridge of the frontal hone towards its external angle, on the left side of the head; from thence it entered the back part of the orbit, and made its exit on the superior and posterior aspect of the pluryny of the same side. It now proecoded across the eavity of the month, and entered the lower portion of the pherrynx on the opposite side and proceeding downwards and forwards, it lodged under the lower third of right side of the neck. The site of the ball was not discovered immediately after the receipt of the injury, nor until after death.

The case was conveyed to the General Military Hospital of St. Zelmo, in St. Schastian, the same evening on which the wound was recrived; and the patient seemed to go on favourably until the afternoon of the tith., or the 8th, day after the accident. On that day I was doing the duty of orderly medical officer at the bospital, and about five in the afternoon I was called to see Newell, who, I was told, was bleeding at the mouth. On arriving at his hed, I found a small quantity of arterial blood flowing; and directed him to gargle his month with cold water, and which being done, the hamorrhage stopped. On examining the cavity of the mouth, which I did previously to ordering the gargle, I discovered the wounds on the right and left side of the pharynx, and I at the same time saw the blood issuing in a small quantity from that on the left. The case not being mider my charge, excepting in so far as my routine of orderly duty was concerned, this was the first time I had examined it particularly. In addition to gargling the month I ordered cold water to be constantly applied to the external wound and forehead, hoping by these means, to put a stop to the homorrhage if the vessel should be small. From the apparent direction of the wound, I had little doubt but that some of the branches of the internal carotid were injured and most probably the internal maxillary.

Having given these directions, with orders that he should be punctually watched, I left bim for that time. About midnight I was again called to him, and informed by the orderly, that he was now bleeding profusely by the mouth. I saw him immediately, and found the bed as well as the floor on one side, covered with blood to the extent perhaps of about Ibii.s. I now immediately proposed taking up, and securing the external carotid artery, in order to save him, to which proceeding he immediately and gladly consented. There was at this period great pain on the right side of the neck, where the ball was located, and on this account I felt some difficulty in making him bend his neck laterally, so as to expose the left side, on which I intended to operate. By this time I had procured the assistance of the hospital dispensor Mr. Cupples, with two or three of the ward orderlies to stand by in readiness. I commenced the operation by the light of a couple of small

With a couple of pillows under his neck, and lying on his right side, I made a longitudinal incision through the skin and a portion of the integuments, about three inches long, from the lobe of the ear to the middle of the neck, in direction of the sheath of the common carotid and its bifurcation. I very soon got into the sheath, a little under the bifurcation of the vsssel, but my light being very insufficient, I thought 1 should cut more safely by cantiously pushing in a small grooved director between the anterior part of the vessel and its sheath, as far as the bifurcation. I did so, and ran the bistoury along it, but lo, and behold! the blood issued from my incision in a fuil arterial stream; so that I thought at the moment that I had cut either the external or the internal carotid right across. By pressing my finger, however, firmly upon the common earotid, which I had now full power of, 1 cleaned and examined my incision, and found that matters were not so had as I had apprehended; I had only ent across the superior thyroid artery, which in this case had taken its origin from the trunk of the common carotid.

Aplaced a ligature upon it without delay, and now judged it my best plan to tie the common carotidat the point where I first exposed it. This was completed in a few minutes, and the wound of the integuments was closed with three interripted sutures and adhesive plaister. hemorrhage was completely arrested; but his pulse was weak and compressible. At a in the morning he became unable to articulate; and at 7 he was comatose. He died at half-past S A.M., eight hours after the operation.

Sectio eadaveris, at 3 P.M. The ball had struck the outer angle of the left orbital or superciliary ridge of the frontal bone, fractming a portion and descending through the floor of the orbit at its posterior part. It had passed close to the optic nerve, but without injuring it, or fracturing the orbital plate of the frontal bone. From thence it had passed in a direc line to the posterior part of the pharynx, and made its exit on a line parallel to the last molar tooth of the upper jaw, to the left of the mesial line. It had again entered on the lower and opposite side of the pharynx, fracturing the internal and external pterygoid processes of the sphenoid bone of the right side, brushed through between the external and internal carotid arteries, without injuring either of themor their accompanying veins, and lodged un-der the belly of the sterno-cleido-ma-toidens musele, in the lower third of its extent. There it was found surrounded by a large quantity of coagulated blood. The coats of the eye were uninjured to appearance, but the aqueous and vitreous humours were similar to coagulated blood. The crystalline lens was soft, and almost approaching to fluidity. On opening the tumour on the right side of the neck, the whole space from the clavicle to the mastoid process of the temporal bone was in a complete mass of disorganisation; and it was only with the greatest difficulty that the great bloodvessels could be discovered. On laying open the abdomen, the stomach was found filled with coagulated blood; and from the pylorus to the rection, the intestines were filled with the same. From the circumstance of the stomach and intestines being thus filled with blood, it would appear that the hæmorrhage had commenced at a considerable time previous to the operation, undiscovered-or before it had issued from the mouth. Perhaps during the sleep in which the patient had fallen between my the menstrual secretion. The vagina was first and second visits to him on the night of the operation, the vessel or vessels had poured out blood in such quantity as was found in the stomach and intestines; and which had prevented the snecess of the operation, by the loss of such a large quantity of the vital thiid which the operation was now performed too late to preserve.

167, Bishop and Street, Without, November, 14, 1842.

EXTRACTS FROM FOREIGN JOURNALS.

(Translated from Orelicitin Medical Gazette for the "Medical Time ..."

German.—Account of the relative number of Births and Deaths in the Prussian States in 1811, compared with those of 1840. By Dr. HOFFMAN, Director of the Bureau of Statistics.—This is an interesting paper, especially to those who are engaged in the study of statistics; the following are the principal facts.

In 1841, in the eight provinces of Prussia, except the Principality of Neufchatel, but including the whole military, the population is now, 1842, males, 7,418,582; females, 7,479.919; total, 14,928,501. In 1841, were born 591,505; died 415,256; increase 176,249.

The difference of the sexes born, as	follows :-
Born in wedlock, males	283,027
—— Females	266,849
	21.419
—— Females	20,710
Legitimate total	519,376
Hlegitimate total	12,129
	591,505
Among the births, cases of twins Triple births	6,277
Quadruple births	. 3
Quadruple births The number of still-born were	. 22,751
Number of deaths at different per	iods of the
year.	
dan, Feb. Mar.	121,416
April, May, June,	96,405
July, Aug. Sept.	\$1,503
Oct. Nov. Dec.	102,932
Total	115,256
_	

The deaths are divided into periods, which are, still-born, the 1st. year after birth, from thence to the end of the 3rd, year, then to the 7th, 14th, 20th; after, in periods of five years, to above eighty. Among the different causes of death given in the paper, are the suicides; the number, of which are, males 1,305; females, 325; total, 1,630; giving the proportion to the whole population, males is 1 to 5.708—females, 1 to 23.015.

Strangulation of the Os Uteri, cancel by a ring-Pessary.—The patient, the wife of a farmer, had some years before suffered from prolapsus uteri, for which she had pushed up the vagina a wooden ring; it had the effect of keeping up the interus, but soon produced painful effects. She was at length obliged to keep her bed. Upon examination, the os nteri was found projecting through the eye of the pessary, forming an elastic fleshy cylinder 23 inches long, 11 inch in diameter, which the writer compares to a paraphymosis; above this was found the wooden ring full 21 inches in diameter-its eye might be an inch in diameter, through which had passed the neck of the uterus, which was so pressed, as to form the cylinder above-mentioned; yet not so much strangulated as to prevent the outflow of much exceriated and painful; the treatment was antiphlogistic; the os uteri well scarified and rubbed every two hours with iodine cintment and opium, solution of lead applied freely to the vagina, and its walls smeared with nng, saturn; the ring after the reduction of the swollen os uteri, was at length extracted piecemeal by strong nippers.

Malformation of the Parts of Generation,-In a child eighteen days old, which died from bronchitis. Close under the navel the bladder projected, forming a roundish, spongy feeling, dark red tumour, about the size of a walnut. The mons veneris was consequently wanting, and the regio bypogastrica appeared remarkably shortened. The openappeared remarkably shortened. ings of the meters lay at the under part of the tumour, hidden in a furrow, and observable only in the dead subject, from which the nrine was continually oozing out, keeping the child constantly wet. The Penis was about half an inch in length, flattened, withont any urethral passage, instead of the prepnee it was surrounded by two strong, liplike, dark red folds of skin, which commenced in the furrow beneath the bladder, continuing below into the well-formed serotum. On the back of the penis ran a shallow channel from before to behind, as it

were the rudiment of the absent urethrathe serotum, which was not so large as is usual with new-born boys, yet otherwise well formed, the testes and epididymes lay on each side of the raphe. On the section, the internal urinary and sexual organs showed nothing abnormal except the more spongy than membrations appearance of the urinary bladder. The vasa deferentia were continued as far as the farrow between the bladder and penis; no trace of ossification was found in the publis; the cartilaginous rudiments of these bones stood quite an inch apart from each other. The abdominal muscles were generally little developed; the pyramidales entirely absent.

Heralitary Phymosis. - Five brothers are mentioned, who, as well as their father, had congenital phymosis. They were cured by circumcision, by Dr. Rupprecht.

Sudden Dumbness -- In consequence of a fright and quarrel with her busband, a very choleric woman suddenly and completely lost the use of her speech, and remained so three weeks; the curative means were first an emetic, then decoct, sinap, internally and washing the month with the same; chewing pepper, horse radish, &c., and applying blisters to the back of the neck-speech returned by degrees-she was quite well in six months.

Erit of a Stone from the Bladder through on Absecss in the Rectum .- Nature in this case ejected a stone from the bladder of the size of a walnut, by the same way in which art by the sectio lateralis would have extracted it, and with greater danger to life.

Trenen. - On the Origin of Organic Forms. By M. VIREY.-The subject of the origin of organic forms has not hitherto received its due consideration. According to the system of pantheism, we are compelled to admit the spontaneous formation even of man and the larger animals, from all cternity, and by a species of fatalism, without the intervention of any distinct or superior intelligence, or by the activity of matter alone. But, if there are evident proofs in natural history: 1st. That organized beings are connected one with another by harmonious relations, according to a regular system; 2nd. That races are not arbitrarily developed, that they establish even insurmountable limits between species, however near allied, and are opposed to the creation of intermediate or permanent hybrid races; 3rd. Lastly, that obstacles are found to exist to the pretended spontaneous, free or physicochemical generations; we must admit that the production of organic forms does not result from chance or from material circumstances only; a fact of the highest importance; for it would lead us to acknowledge a distinct, and infinitely fore-seeing cause in the generation of regetable and animal beings; a cause producing such a chain of relations, and so regular a system of organization. This concatenation of the natural families of organised beings, both vegetable and animal, has long been acknowledged. The ancient philosophers, while admilting spontaneous and irregular generations, had no distinct idea as to the chain of beings and their connections. Aristotle however, in his grand classifications still acknowledged as the bases of zoology, paid great attention to their principal relations of structure. Hence arose his discovery of the symmetrical system pervading nature, which could not possibly result from a fortuitous concourse of inorganie elements or atoms. In fact, the various species or types presented on our globe are not isolated and unconnected, they belong to an harmonious whole: attesting their common production; and the blood revolting at all im-

In parentage or origin by their intimate alliances and affinities. Some have asserted that by an original union between distant branches of the creation, repeated at various periods during the long course of ages, has arisen that infinite multitude of races more or less allied, which, successively mingling one with another, have generated that vast hierarchty of species linked together by similar genera and families. Hence, it is said, the unity, the harmony, which appears to pervade the numerous classes of beings, binding together their various elements. Hence, our inability to fix assignable limits to species and their varieties, by reason of their various causes of modification from climate, temperature, food, &c. We cannot therefore— it is asserted—wonder at those innumerable races of insects, and plants, in various regions, at their mutual relations and anastomoses. But this theory supposes the possibility of free unions, of a promiseuous intercourse, as it were, between all animal or vegetable species; producing an universal and unrestrained degeneracy throughout the whole globe; leaving no fixed or determined type, but resulting in forms incessantly changing.

We have examined, in the various classes of animals and vegetables, the obstacles opposed to this promiscuous connection of species and confusion of organised nature. There is not only a law of variety in the organic productions of our globe, but also an order of fixity in the constancy and separation of the types, or the preservation of their original purity, since the varieties return spontaneously to their native standard, by a succession of oscillations, resembling as it were the pendulum of a clock. Among the conditions of the existence of beings, one of the least remarkable but most essential, is that which *limits the crossing* of species, or which maintains the prototype forms. This fact is in itself an evidence against the spontanconsness of organic formations, or their production at hazard. In the case of hybrids or mules, we see an alliance between proximate species, but not between different genera. Thus the carnivora do not mingle themselves with the herbivora; there are assigned limits beyond which the mingling of distinct organisations cannot take place. This law is of equal application in the vegetable kindom, where nature distinguishes the specific types by in-genious constructions. Thus the fecundating pollen, from its form, its size, or the circumstances of flowering time, is unable to fertilize the ovary of every flower or penetrate within the style; it requires certain intimate connexions and fitting periods for fccundation to take place. This isolation of species becomes essentially necessary among aquatic animals, the fish, the inferior races of so many myriads of mollusca, and zoophytes, scattering their spawn upon the waters. Thus each species of ovum undoubtedly accepts and can absorb only the liquid emanating from its normal type, which alone is capable of vivifying it. Hybrids are rare among them. This law of isolation is in like manner fully borne out among insects, some races of which, as the hymenopteri, carry a scaly apparatus around the valva, which effectually prevents sexual union with the males of other species,

The ancient notions admitted with regard to the formation of centaurs or satyrs, are disproved, says M. Virey, by the differences in the periods of fecundity, in the duration of gestation, and the mode of nutrition of the various embryos and of the feetus in the maternal womb. Each species is borne by an irresistible instinct to its type of normal unity, of beauty or perfection in the important act of re-

pure and monstrons connections, assists in accomplishing an eternal separation between the different species,

The objection of spontaneous generations might be formidable, inasmuch as it gives to nature the power of producing not only all sorts of irregular and unnatural forms, but would even make her an accomplice of each monstrosity, and governed by no defined limits or laws. In this system of pantheism we have no term to the multiplicity of contingent combinations, which are limited only by the necessity of the elements or contrary forces, and by fatality; chance becomes the generator of all. Now, in organized nature there reigns, on the contrary, a constantly normal and regular series of productions. Order and in-telligence productionate every where, even in anomalous or moustrous formations. Although the more exact observation of the moderns by means of the microscope has greatly restricted the number of these pretended spontaneous productions, whether among the intestinal worms and other epizooa, or in the class of infusorial animaleula; although we have already shown the existence of sexes in certain genera and a propagation, whether byvery small ovules, or by fissures or suckers, as in a multitude of vegetables, it would perhaps be rash to deny altogether the possibility of spontaneous generation in these inferior beings. It has been asserted that there is a continual creation and a tendency of matter to organi-ation every where going on (as the Zoosperms) in the tissues or structures of living beings capable of elaborating them. But these supposed spontaneous animalcules cease to be irregular and orderless in their structure, they assume a normal shape, capable of classifica-tion; they have their types, their special germs, very different from the crystalline structure of the mineral. In fact, an organized being is such only by its entire unity, binding together its parts so as to confer on it a spontaneous. ness of action, whether instinctive or voluntary, and a centre of activity to rule over the entire being. Life appears only compatible with the emanation and transmission of a primordial germ in a special form, with organs predestined for a certain end. Now, these organs manifest themselves in the beings of so called spontaneous creation (the infusoria, the vorticella, intestinal worms, &c.) How then, can they be the work of chance or of some blind power? What has conceived their object, directed their destination, or adapted their structure? The intervention of a creating intelligence becomes then indispensable in all organized vitality. It is a mysterious inearnation, inexplicable by the means within our limited reach. Life, organization, as shown upon this globe, are in their attributes and origin the most convincing evidence of an intellectual power in the animal and vegetable kingdom, or the direct emanation of a divinity, of which humanity is the term.

From these considerations, says M. Virey, the hypothesis of pantheism or of the unity of substance appears to be perfectly inadmissable.

Researches upon the Development of Bone.-By M. FLOURENS .- Importance of the Medullary Membrane, or Internal Periosteum in the Formation of Bone .- M. Flourens states, that in his previous works he has considered the medullary membrane, or internal periosteum only as the organ of the re-absorption of bone; it is, however, also an organ of formation to the bone. In a recent experiment, he removed the entire external periosteum from the tibia of a duck, and the whole of thus outer membrane was reproduced. But before this re-production took place the normal formative action of the internal periosteum became increased, and fresh bone was formed in the interior of the medullary canal. Independently of its power of re-absorption, the internal periosteum has then a power of formation, which becomes especially apparent when the external periosteum is destroyed. When this destruction is performed over the whole extent of the bone, new bone is formed throughout the entire interior of the medullary canal; when on the contrary, the external periosteum is removed but from a portion of the bone, new ossific matter is thrown out only at the corresponding point of the interior of the canal. Hence, the destruction of the external periosteum is always followed by obliteration of the medullary canal in consequence of a new osseous production, and, on the other hand, the obliterated points of the canal always correspond in position to the site of the removed external periosteum. Two agents concur then in the formation of bone; the external, as well as the internal periosteum. In the normal or ordinary state, each of these agents or powers preserves its proper limits; the external periosteum is constantly producing or repairing the outer portion of the bone, and the internal periosteum-the internal or spongy tissucof the bone. There is, in the natural state, a sort of counter-balancing between these two powers. But if we destroy the internal periosteum, the power and action of the external membrane become augmented, and new hone is produced externally to the old one; and vice versa.

Experiments upon the Increase in Thickness of Bone.-M. Flourens states that it has previously been proved by experiments with madder, that the increase in thickness of bone is accomplished by layers placed successively one upon the other. He has recently performed still more decisive experiments on this subject, In imitation of Duhamel, he has encircled with platinum-wire various long bones in different animals, dogs, rabbits, and guinea-pigs. In a young rabbit, he first encircled the tibia with a platinum-wire, placed immediately upon the periosteum; the animal was allowed to live twenty-eight days before killing it. The ring of platinum wire was found near the middle of the bone, encircling in some points what remained of the old periosteum, and in other parts it was itself covered by the new periosteum. We see, then, first, that the new periosteum is formed above the old, A second rabbit, experimented on the same day as the preceding one, was not killed till the thirtyeighth day after the operation. In this case, the platinum-ring was not only covered entirely by the periosteum, but it was also, for a certain extent, covered with a layer of bone. Thus the new bone, which had become developed since the application of the ring, was formed above the platinum; that is to say, in external layers placed one above the other. So also with a third rabbit killed a few days later. These experiments, he thinks, are conclusive. The only objection was one suggested by Duhamel, who, after performing similar experiments, and finding that the ring which at first eneircled the bone, was afterwards covered by the new formation, supposed that the fibres of the bone while spreading had become ruptured opposite the ring, and had afterwards re-united. M. Flourens exhibited several preparations, in which the bone remained perfectly smooth and shining, without any sign of rupture, at the points still encireled by the ring; and where the ring was itself covered by osseous layers, the bone was seen to be of new formation. From various

not distend itself, and become inpured, but that all new bone is formed above the o'd. a guinea-pig, the tibia was encircled with a platinum-wire. The tibia of the opposite side was amoutated at the same time. The animal survived twelve days after the operation, and was during the whole time fed on madder. A ring or circular enlargement was found near the middle of the bone formed by new bony matter, and from the head of the bone as far as this ring, the colour was perfectly red. Just beneath this enlargement was found the platinum-wire. Lastly, six or eight millimetres below the wire the bone was broken so as to exhibit its original structure, which was of a pure white. In this preparation the new bone was perfectly distinct from the old. The new was entirely red, the old white. All the new bone was above the wire, the old was below it. Lastly, the old bone was exactly of the same diameter as that of the opposite leg, which had been removed on the day that the platinum was applied. Bone is then formed by successive layers, placed one externally to the other,

Experiments upon the Increase in Langth of Lone. — In imitation of the experiments of Duhamel and J. Hunter, M. Flourens bored two holes in the tibiæ of several rabbits. space between these holes was measured very exactly. The tibia of the opposite leg was at the same time removed and kept for the purpose of comparison. In one animal which had lived twenty-eight days after the experiment, the interval between the two holes remained the same, although the animal had sensibly enlarged; the tibia in particular had increased twelve millimetres in length. Upon other animals killed, the one fifty and the other eighty-seven days after the experiment, the same results were obtained. The bone then elongates itself only by its extremities; it increases in length by terminal layers placed in jurta-position.

Mechanism of the Reproduction of the Perusteum.—The periosteum is re-produced by external layers placed one above the other. The before mentioned experiments, performed with the platinum-wire passed around the periosteum, abundantly prove it. In these experiments, the ring is placed above the periosteum, and we may still see the old periosteum heneath the ring, while a new membrane is already formed above the platinum, and covers it over.

SILK HATS AND BALDNESS.

FEW people are aware of the evil consequencewhich may arise from constantly wearing a silk hat; they, indeed, may be sensible of the effects, but the cause remains hidden from them. They are, says the "Chemist," thus manufactured. À body is made of pasteboard, willow, canvass, cane, Mackintosh, or stuff of the proper shape of the hat. Over the body is laid a strong varnish, principally composed of resin, linseed oil, and the commonest, as being the cheapest, naphtha that can be procured, to which silk hats owe their highly offensive, and, we believe, very unwhole-some odour, by means of which the silk plush is made to adhere, and by which they are rendered arr-tight. The silk cannot be introduced into the body by the same means as the beaver is. It will be perceived that the fur is introduced into the very substance of the body in such a manner as to have the appearance of having grown there, while the silk plush is laid on by means of a thick, glutinous varnish. To these differences are to be attributed the ill effects of which we are now about to speak. It has long been observed, as is well known to the trade, that silk hats keep the head

winter, than beaver hats do, owing to the much greater impermedility of the former, caused by the layer of strong varnish above spoken of. This varnish, stopping ventilation, prevents the passing away of the warm vapour arising from the head while in a state of perspiration, causing it to condense again on the hair, sometimes covering it with large drops. Thus, at a time when ventilation is carried in other things to a prodigious extent under the superintendence of Dr. Reid, the head is kept most prejudicially free from its beneficial effects.

Medical men are well aware of the importance of getting rid of the excretions, and will concar with us in saying that this effect of silk hats must be a highly injurious one, as, indeed, the facts which we shall adduce sufficiently prove it to be.

Men who constantly wear silk hats lose their hair much sooner than those who adhere to the use of beaver; and this will explain to many, who have not before been able to account for it, the reason of their becoming permanently bald, and not unfrequently experiencing very unpleasant sensations about the head. The fact that those who wear silk hats become bald earlier than others is well known to every one in the hat trade. A traveller for a large firm has been heard to say that he would cat every hair left on the head of a man who had worn a silk hat for ten years; meaning, of cour c, that such a person would be completely bald.

It may not be out of place to mention here, that a manufacturer who makes very large quantities of the silk plush for hats, being desirons of patronising an article from which he derived considerable emolument, ordered a silk hat, and wore it for some time. He experienced very great uneasiness about the head, and, at the advice of a friend to whom he mentioned the circumstance, he left off the silk hat, returned to the use of a beaver hat, and suffered no further inconvenience.

DALBY'S CARMINATIVE.

R. Tr. Opii, 5j.; Tr. Assafet, 5iiss.; Olei Carni, 5j.; Olei Menth. Pip. 5ji,; Tr. Castorei, 5viss.; Sp. Rectif, 5vj.—M. S. A.

When the mixture is complete, it is to be divided into two-drachin doses, which are to be poured into small bottles containing from seven and a half to ten drachins a-piece, into each of which a drachin of calcined magnesia has been previously introduced. Finally, the bottles are to be tilled up with simple syrup, and a small quantity of rectified spirits, and to be well shaken to mix the whole.

This medicine is one of the most ancient and popular areana in Great Britain, where it is recommended in the flatulence, gripes, convulsions, &c. of infants; and in the irregular gout, the bloody flux, and violent cholic of adults. It is thought eminently serviceable in the different bowel complaints to which sca-faring men are very subject.

Five or six drops are given to weakly infants two or three days old, in a tea-spoonful of warm water sweetened; and if this dose does not produce the desired effect in six or eight minutes, it is repeated. The dose is augmented in proportion to the age of the little patients, and the severity of the symptoms to be combated. Two doses in a day, or three at the most, are sufficient for the most obstituate cases.

A tea-spoonful is given to infants from one or two years old, or even more if the symptoms are violent. Three tea-spoonfuls are given to children seven years old.

Adults take half or two-thirds of a bottle for a dose, either pure, or mixed with as much warm water as will make it of an agreeable temperature. In all cases it is necessary to shake the bottle before pouring out the dose.

It has been observed that in persons subject to constipation, or who vomit acid matter, it is very useful to combine magnesia with the use of this

carminative.

experiments, he concludes, that the bone does much warmer in summer, and much colder in porary, Dalby's Carminative is made after various

receipts, so that the dose which is perfectly safe when the cordial is proposed by A, may be poiseness when it is mainted entered by B. In the Returns from the Coroners of England and Wales made to the House of Commons in 1839, we find ten cases of death from Godfrey's Cerdial, and one from Infant's Mixture. Dr. John ! Larke mentions an infant destroyed by forty drops of Dalby's Carminative,

TO CORRESPONDENTS.

. .h. I attended to in the brochure. It see lan for the number.

Declined. Denatus-Walter C.-L. L,-1 B,-M. D. -Mi. H. Topsham.

We shall must week give an obstract of the Act Leading the payment of Medical Witness, and ... an over at once a host of empiries we have re-A un dis salijert.

Several Coursespondents are entitled to our acknows

THE MEDICAL TIMES ALMANAC. - As we take t for graved that all our connectiate subscribers will · care ions for a coper of our Almanac, which for fouryear plain, and frequence stamped, will really give a ground's worth of solid information, we shall, to save them the expense of writing for it, send a copy with every member that leaves our office. Our other frauds ore requested to give their orders to their new men and booksellers.

NOTICE.

ON THE 1st OF DECEMBER NEXT, WILL BE PUBLISHED, AS AN APPENDIX TO OUR ORDINARY NUMBER, A MEDICAL ALMANAC. REPLETE WITH MATHER THE MOST VALUABLE AND INTEREST-ING FOR THE MEDICAL PROFESSION,-IT WILL CONSIST OF 72 QUARTO CO-LUMNS,-Price 47, Prain, 53, Stample.

Erreyta.-In Mr. Adam's " Case of Clarryoynace, is our last No., in 2d column, the 26th. 27th, and 28th lines are insplaced—in 3d column, line 81, read " km ," for " being,"—in 4th column, line 37th, for " mon at," read " creite."

THE MEDICAL TIMES.

Saturday, November 26, 1842.

Correte per fotum pavidi conclave, mai i-que Examines fregulare, simul donus alt e Molossis Personuit capibus — Tum rustiens, &c.

It " le diable boiteux" continue to take an interest in human perplexities and embroilments, he must enjoy a more than customary treat, while, hovering over the council chamber of the College of Surgeons, he surveys the condition to which the question of practitioner-examination has reduced the embarrassed twenty-one. The explicit letter of their late President being now in every practitioner's hand, and Dr. Hasting's avoval of its receipt for wide publication being by this time no less known, the secretary of the College is dunned each post by bagfulls of letters he dare not answer; the doors are besieged by clamorous thousands, who will not have premis a made to the car broken by any miss table word-jugglery to the hope, and there they sit-these select chieftains of an calightened profession-cach ill at case with his neighbour, and seareely less so to himself.- mutual dislike in its increasing intensity overcoming their power over the sail coremony of their usual smile; all (save the sleek, fat, Carar-loving Anthony)

threatening—each conscious of bearing his share of corporate ridicule and embarrassment,-the majority internally asking with bated breath and limible reverence, what are our laws, and what our regulations? what means are there of knowing what we have done, and what not? what is the College of which we are called the heads? by whom is it managed? how, when, and where !- and nearly each feeling that somehow the machine has gone on without HIM! But their mutual vexations will not relieve them from their Judierous embarassment: a decision must be come to on an important question which they themselves have raised, and, despite the contempt it may fling on their authority, that decision mest be against themselves and their certificate system, and in favour of those to whose expectations they have in one way or another directly given origin.

How stand the ficts of the case? About April last, by no small excitions, to which the president (at that time) of the College largely and, as he said, most successfully contributed, the Poor Law Commissioners introduced various changes in reference to the medical officerships of unions, -one of which was the exaction from all candidates for such posts, of a diploma, not only from a medical, but an English surgical source. It being immediately felt that this arrangement would exclude many competent practitioners, good, and even examined surgeons from situations which they had long held. or looked forward to,-it was suggested first, and among public journals solely, by ourselves, that the English College should give such gentlemen an opportunity of proving whether they possessed (without reference to certificates) such practical surgical knowledge, as would at once give them a fair title to membership in that institution, and a just claim to compete for a surgeonship in the public service. The Court of Examiners appear to have thought as we did; for in July they were, and for some time previously had been, admitting practitioners to examination on their merits practically, and without reference to the customary rules and regulations. This is a fact, not to be gain aid; it is attested by a public document, and signed by the very best of authorities—the then president of the College, who showed a great and very praiseworthy anxiety to have the fact made as publicly known as possible. Did the College, in thus admitting such practitioners, do so on public or private grounds? To say private grounds would be to convict it of the worst kind of misrule a public body is capable of; if on public grounds, what shall justify its non-extension of the same right now to individuals in precisely similar chemistances? We ask the question, and date the College to give us the pretence of a reply

The explanation, however, of all the recent first made by some worthy members of the conneil on this matter, is precisely

trusting, and fuming and frowning, and practitioners could be made a subject of personal favour by the Court, and thus turned into means of increasing influencenot to say practice, -so long was the innovation patiently acquiesced in; but the moment that Mr. Guthrie's frank letter turned it from a vehicle of favouritism into a matter of general right and universal claim, that moment is a shew of resistance exhibited-a resistance, be it remarked. which, presenting the council as ignorant of their own minds individually and collectively, as without concert, harmony, or the least pretence of decent consistency or justice, makes them odious to one part of the profession and contemptible to the other! But to suppose, we repeat, that there will be more than a show of resistance would prove a sad suspiciousness on one side, or silly unprincipledness on the other; for it would suppose the twenty-one registering themselves not only as a most lawless and illegitimately governed set, but as men who with the solemn charge of protecting our Profession, sacrificed the happiness of a large portion of its members - not for private interest, which would be something, but for private whim and spite!

An lumble contemporary—the "Gazette" of Wits' Bankrupts-lately contradieted our rumour as it called it on this subject, on what it declared "high authority." "High authority" varies in its meaning, according as the utterer recedes or approaches this or that level, and as our private correspondence suggests that such a contradiction was in fact ventured on, the day before the Gazette appeared, by the porter of the College, we are not disposed to dispute that, in the editor's opinion, his assurance was founded on "high authority;" certainly it was high enough to be far, very fur above the truth. Clearly the College has been in the habit of making such admissions, and clearly the President in the most perspicuous language made such admissions a matter of universal claim to all practitioners in need of them. Our contemporary's authority therefore, however high" physically, or relatively to the genteel editor himself, must be extremely "low" in the moral aspects of veracity and respectability. Of all liars, save us from the daring power of assertion of your official liar. From the Moniteur downwards there is no fact outside, ave or inside mathematics, though attested by a whole nation of witnesses, which one of these hopeful gentlemen will not cooly contradict on "the highest authority," If there be one character lower than this, it is the writer, who, in a silly desire to be mistaken for official, volunteers uninvited to do the same dirty work gratis!

To finish with semething more useful than fly-crushing, there are two duties which cannot, we beg to impress on the Council of the College, be performed too soon. First, to let students know decisively whether they can or cannot be examined under the old regulation after January next; hating and hoping, and fearing and dis- this. So long as the admission of old are admissible by examination on their meand secondly, as it is clear that practitioners rits practically, to make known how long this privilege is to lie open for their acceptance. On both points it belongs to the duty of a governing professional body to allow no mystery or misunderstanding. Inconvenience, embarrassment, perplexity, and loss, are a few of the necessary cousequences of the doubts on these matters that now universally prevail. Apart from this, it is not seemly that no two members of the council can agree on what are, or what are not the regulations or intentions of the College. What Stanley, with lucky truth, declares nouscuse, Guthrie, with equal veracity, calls a college practice; what the latter declares contemptible, the former insists on as a legitimate law. The other councellors hew a similar harmonious agreement; and their worthy secretary, when he ventures to rice above ignorance on any given subject of enquiry, is found to be at variance with all. This is not respectable; it exhibits that worst anomaly -a governing body ungoverned.

MESMERISM.

A CASE OF AMPLITATION DURING MESMERIC SELLER

On Tuesday evening a paper was read at the Medico Chirugical Society, at their rooms in Berners-street, the joint production of Mr. Topham, a barrister, and Mr. Squires Ward, the surgeon, relative to amputation of the thigh during mesmeric sleep, at the district hospital of Nottingham. There was an unusual attendance of fellows, and visitors, and the crowd was so great that many were compelled to stand during the reading and discussion of the paper. Among the visitors announced from the chair were, Colonel Gurwood, Captain Valliant, Dr. Walsh, Dr. Binns, Mr. Denmson, M.P., Dr. Allmitt, Dr. K. Grant, &c.; and, subsequently, the Marquis of Litchfield was introduced by Dr. Elliotson. Among the fellows present we noticed, Dr. James Johnson, Dr. Arnott, Sir James Clark, Dr. Marshall Hall, Dr. Elliotson, Dr. Syme, Dr. Bell, Dr. Moore, Dr. Williams, Dr. Forbes, Sir Benjamin Brodie, Mr. Liston, Mr. Bransby Cooper, Mr. Coulson, Mr. Alcock, &c. &c., and, in short, nearly every man of eminence or consideration in the profession in London,-The preliminary business of the Society having been concluded, the paper was read by the secretary. The first part, which was written by Mr. Topham, professed to propound no theory, but to detail facts; and went on to state that the patient, James Wombwell, an agricultural labourer, was first seen by him (the author) on the 21st of June last (we believe this was the date),- that he was thea suffering great agony from an affection of the knee, which subsequently proved to be inflammation and absorption of the ligaments, with caries of the condyles of the temur and tibia, that, after repeated attempts to mesmerise him, he fully succceded-and that at length, in September last, he was thrown into mesmeric trance, when the operation of removing the thigh was performed by Mr. Squires Ward. To scenre deeper sleep than usual, Mr. Topham placed his thumbs, or fingers, we forget which, on the balls of the eyes, and kept them there during the operation, the patient during the whole period of the process sleeping soundly. and only making a low meaning like that of a man in a troubled dicam, when the bone was saved On being asked by Mr. Toplam, after the operation, if he felt any pain while in the mesmerie trance, he replied, " No," but that he heard at one time something like "a crunching," -this was when the bone was sawed. The second portion of the paper was strictly surgical; Mr. Ward describing very minutely the symptoms of the case, the previous treatment, the operation, and subsequent recovery of the patient; but as these points offer

nothing tomarkable - except that, from the position of the patient, he was compelled to make a third incision, which, in ordinary cases, would have caused increased pain, but, in this, did not attect the patient, and that the sciatic nerve was irritated without inducing pain, --we shall pass on to the discussion, which, we are bound to say, was conducted with more candour and moderation than we have generally generally among our medical Inethren. We hail this as a good sign. Whatever may be said of the intolerance and illiberality of the profession, the time is passed when any professional man, however high in public estimation, dare attempt to check inquiry, or prevent dis-

Mr. Cordson was the first to express an equinion to the effect that he regretted the reading of the paper,-we could not understand his reason.

Dr. Moore then wished that the paper had been accompanied by athdavits, as a paper like that required such documents.

Mr. Wood said, if any testimony were requisite, he begged to state that he assisted at the operation (we believe both Mr. Ward and Mr. Topham were present also), and that there were elergymen, bymen, and other surgeons, present; and, consequently, nothing could be easier than the production of such a document, if Dr. Moore insisted upon it -but for his part he saw no necessity

Mr. Alcock was of opinion that the question was not, whether no sense of pain was expressed, but whether any pain was felt. He had performed many operations, and some patents—one even smoked his pipe during the operation-expressed little or no sense of pain. He was not, therefore, satisfied that the patient did not feel pain, though he did not express any.

Sir B. Brodie followed on the same side. He quoted the ease of the sleeping boy, related by Dr. Oliver, of Bath, in the Phil. Trans., who suffered pins to be thrust under his finger-nails, was cupped, and otherwise tortured, without showing any sign of pain. Sir Thomas Hardy, he said, scarcely knew what pain was; and he had himself, in performing an operation for femoral hernia, on a very illustrious individual, observed his total indifference, taking up the different instruments and examining floor, and putting questions to him as to the progress of the operation, until he touched a branch of the ischiatic nerve, when he exclaimed, " You burt me," He instanced some other cases but we could not see in what way they bore upon that before the Society. He concurred, he said, with one of the gentlemen who had a poken, that this paper should not have been received by the council, or permitted to be read, as he himself was perfectly satisfied with the report of the French academy, and considered mesmerism a complete delusion.

Dr. Blake offered a few observations to the effect that a girl, named Ross, in the North London Hospital, had simulated mesmeric phenomena, and had subsequently admitted that she had simulated; and supposed this case was similar,

Mr. Bransby Cooper wished that some of the mesmeriters would tell the Society how its effects were produced, and what was its modus operandr?

Mr. Liston hoped the mesmerisers would tell them, also, something about people reading with their bellies and elbows (ijosisama rerba-)

Dr. Syme explained, and said he had witnessed sever il cases of persons, in mesmeric trance, reading without using their visual apparatus.

Dr. Mayor was of opinion that there was something more than mere imagination, or indifference to pain, during the presence of what was called, nucsmeric phenomena. He had, himself, thru (a pin, nearly up to the head, in the arm of the girl, Elizabeth Okey, when she could not have had the slightest knowledge of his intention, yet she evinced no pain. He then cited the case of Jules Cloquet, in which he removed a cancerous mamma during the mesmeric trance, without the patient feeling any pain. He was of opinion that there was something more in these phenomena than could be referred either to imagination or to stoicism.

Dr. Arnott seemed to argue that the evidence was inconclusive, because he was present at a case

where, after fifty ounces of blood had been taken from the patient, she fainted, when a tumour was removed near the orbit of the eye, without her perceiving any pain. He thought the evidence inconclusive, but wished for further investigation.

Dr. James Johnson referred the whole to imagination, or stoicism. He was bound to believe the testimony of the gentlemen who had brought forward the case; but he would frankly add, that he would not have believed it, had he seen it himself.

Dr. Mar-ball Hall contended that the patient must have felt, or the other leg would have been

After a few remarks from Captain Vallant, in which he described the operation performed upon his servant, in May last, by Dr. Charlton, of Chatham, * while she was in the mesmeric trance, without her being aware of it,

Dr. Elliotson explained, at some length, his views of the subject. He said he could not see the analogy between the cases cited by Sir B. Brodie, and that before the Society. In Sir Benjamin Brodie's case - the patient expressed suffering when the nerve was touched, whereas, in the present case, the nerve was irritated by the probe, yet the patient evinced no sign of suffering! Cases of inscusibility to pain were not uncommon. There was a case reported in the Lancet for 1839, of a patient in the Edinburgh Infirmary, out of whose hands an attendant had actually dn , nith his nail , portions of flesh while in an insensible state, with ait her feeling it, -but he did not see how it bore upon this case. In conclusion, the doctor said, that he was not satisfied with the report of the French Academy, and that he preferred nature for a guide. He was convinced of the truth and reality of the mesmeric phenomena, and should persevere, as he had buherto done, in his researches in mesmerism in pite of ridicule, or whatever other weapons, might be brought against it or him.

The President (Dr. Williams) very briefly addressed the meeting, stating the reasons why the Council bad brought forward the paper; and asserted that they were right, from the number of persons he at that moment saw before him. Prolonging the debate, however, any longer, might, in the eyes of those who blamed the Council, be only increasing the evil. He, therefore, would put

a stop to it.

CASES OF PERITONEAL SECTION

TOR THE

LATIRPATION OF DISEASED OVARIA BY THE LARGE INCISION FROM STERNUM TO PUBES, SUCCESSIONAL TREATED, WITH OTHER CASES OF LATIRPATION OF ANOMALOUS TUMOURS, &c. &c.

By CHARCLES CLAY, Member of the Royal College of Physicians, London, of the College of Surgeons, Edinburgh, and Lecturer on Medical Joursprodence, Sc. Precadilly, Monchester.

(Continued from page 100.)

CASE THE THIRD

I was consulted by Mrs. Dillon, who had been labouring for many years under an enoimous enlargement of the abdominal regions. Hard to the touch without fluctuation, on testing it by percussion (except a little on the left side) the integuments appeared to be slightly moveable on the surface of the tumour, which, however, was so extremely large and filling so completely the abdominal cavity, with the smallest perceivable quantity of ascitic de-posit, that I could not expect to find much mobility in the fumour, or of the integuments over it. She was in her forty-seventh year, still menstruating, never had any children, and had been married eight years; the tumour occupied more of the left, than the right side; she had a fall from a window about nine years ago, when she struck the left hip against the floor, but did not perceive anything remarkable for nearly two years after, when a tumour the size of a goose-egg appeared in the left iliac region, which did not appear to increase much till

^{*} This case was reported in No. 144, Vol. 6.

about four years ago, from which, to the present, it had increased rapidly; she was now forty-five inches in circumference at the umbilical region, and at a rough guess, the tumour might probably weigh thirty-five pounds. She was subject to frequent very severe pains in her back and iliae regions, and had tried every means of relief proposed; about two years previously she was tapped, but only two pints of thick bloody fluid were extracted, affording her no relief; the solidity of the tumour appeared to offer no hope from tapping. In spite of every means tried by many excellent practitioners, she rapidly progressed for the worse, her life was truly miserable, and she was pressingly anxious to adopt any means, however slight the chance of success; convinced, that at most, her life under present eireumstances could be but very short, and abnost unbearable, she concluded an operation would only terminate it a few days sooner, if it did not succeed; she had been long unable to partake of solid,

food, and bad often great difficulty in voiding urine; under these circumstances, she earnestly entreated me to attempt relief by operationy, and from the success of previous cases, her anxiety for its adoption was extreme. In vain I argued that her case had not the same prospect of success as the others preceding her's, and that if it was performed, the chances were greatly against her; her importunities at length prevailed, and I somewhat reluctantly consented to operate. It was therefore decided to be on the 26th of October, at which time I was met by my friends Drs. Radford and Black, Mr. C. W. Vaudrey, Mr. G. Southam, Mr. Middleton, Mr. Holroyd, Mr. J. J. Southam, surgeons, and Mr. Winterbottom, a pupil. It, highly vascular, and though laid bare, we was agreed by all present, that the case was could not discover in it any fluctuation on pernot a promising one, and could only be justi-1 cussion: a brief consultation was then held, fied by her importunities and miserable state, when it was decided to make an attempt to of existence; at the time of operation too, the lessen the tumour, if possible, before bringing catamenia appeared, which might have allorded the integuments together again, in which some

formed me whilst undressing, she should suffer more from depression by the delay

OPERATION. A bold incision was made, as in the previous eases, which was no sooner done than it was evident to every one present that to remove the mass was quite impracticable, the whole anterior surface of the tumour was adherent to the peritoneum, so much so, that there was not room in any place (except immediately above the pubis) for the flat end of the scalpel handle to enter between the peritoneum; in addition to this, the character of the tumour was evidently of a very different character to the generality of ovarian tumours; it appeared means of putting off the operation, but she in- difficulty was apprehended from its tenseness.

GENERAL REMARKS.	Thirst	Flatus	Respiration	Motions	Urine	This ring	Cough	Rambling	Pain	General Surface A little cold	Tongue	Slarp		Temperature	Operation, Oct. 26th. 4 o'clock p.m. Temperature, 70—Pulse, 75—Prine, 5viij — Motions, 1.
Respiration was a little short, but no more than before the operation, from the pressure of the tumour—Had an attack of syncope—Repeated one ground morphine.	None.	None.	Natural.	None.	None.	Λ little.	None	Хопе.	None.	A little cold	Moist.	None,	1-8636	70	7 o'clock p.m.—3 hours after— By Mr. G. Southam.
Evidently rallied—Pulse rising—Ordered a gruel elyster, with Olei Ricini and Olei Terebinth.	None.	None.	Natural	None.	Drawn 5viij.	None.	None.	None.	Notte,	Warm.	Moist.	20 Minutes.	80—Fuller.	72	10 o'clock—6 hours after—Dr Black and myself.
Clyster repeated — Diet — Gum water— truel of out-meal—Panada.	Little.	Little.	Natural	None.	Drawn 5vi.	None.	None	None.	None.	Moist and warm.	Moist.	12 Hour.	80—Fuller., 110—Full	70	5 o'clock a.m., 27th October— 13 hours after.
Blod to 5xii., when she felt sick—Diet continued.	Little	Little.	Natural.	l naturally, afterelyster	Naturally,	None.	None.	A little	None.	Moist and warm.	Moist.	l Hour.	110—Full	70	11 o'clock a.m., 19 hours after —with Dr. Radford.
Evidently much better — Cheerful, but disappointed that the mass was still there—Diet continued.	None.	Mone.	Natural.	naturally.	Naturally, 5vii), 5vi.	None.	None,	None	None,	Moist and warm.	Moist.	2 Hours.	×0—Soft.	70	5 o'clock p.m., 25 hours after.
The pain she felt was chiefly at the attures; had none on pressure—Diet continued.	Little.	None.	tural.	One, naturally,	Naturally, 5vi.	None.	None.	None.	Little.	Moist and warm.	Moist.	I Hour.	86—Soft.	68	11 o'clock p.m., 31 hours after.
Bled to \$x.—Felt sickly—Pain only in the line of sutures: none on pressure—Duct continued.	Little.	None.	Natural.	naturally.	Naturally, 3 nii.	None.	None.	None.	Little.	Warm.	Moist.	5 Hours.	96—Fuller.	e ox.	10 o'clock a.m., 28th; 42 hours after—with Dr, Radford.
Had been more cheerful—Slept frequently soundly—Diet continued.	Noue.	None.	Natural.	Two, naturally.	Naturally, 5viij.	None.	None.	one.	Very little.	Moist and warm.	Moist.	4 Hour's	80—Soft.	68	10 o'clock p.m., 51 hours after.
The pain was on the right side, and continued to one place—Dr. Radford suggested lecebes, if it did not remove shortly—Diet as before,	None.	None.	Natural.	Two.	Naturally, 5 v. 5 viii.	None.	Note:	None.	Little.	Moist and	Maist.	Most of the night.	So—Soft.	70	10 o'clock s.m., 29th October, 56 hours after — with Dr. Radford,
The pain had left the side, so no lecelles were applied—Pain only at sutures, and that a sort of sparting—Diet as before.	Little.	None.	Natural.	Two, naturally	Twice, 5x. 5viii.	None.	None.	None.	Little	Moist and warm.	Moist	3 or 4 Hours,	(0 - Soft	70	10 o'clock p.m., 78 hours after,
Appeared much improved and cheerful—Diet as before.	None.	None.	Natural.	Two.	Twice, 5 \ 5 \ 5 \ 1.	None.	None.	None.	Very little.	Moist and warm.	Moist.	Most of the night.	Soft.	68	to o'clock a.m., 30th October, 90 hours after—with Dr. Radford.

The tumour was pierced in various places with a fine stiletto, when a jet of pure blood issued from each puncture; from this it was evident all attempts to lessen the tumour were useless, and I was reluctantly compelled to close the external wound without affording any effectual relief; the integuments were then brought together as usual, but using more sutures, as the mass beneath rendered it necessary; the parts were well secured by plaisters and bandages, and she was put to bed much depressed in her mind from the fact of its not being removed. One grain of mur morphine was given her. Pulse low and feeble.

At the termination of the fourth day that is, four o'clock r.m. on Sunday the 30th, the wound was examined, and was found adherent nearly its whole length, except about two or three inches just immediately above the pubes where adhesion had not taken place; some of the straps were removed, but no sutures ent out, and all the parts being well cleaned, the bandages were re-applied, during which, she felt little or no fatigue.

Monday morning eight o'clock, A.M. -Found her very comfortable, had slept moderately through the night, voided urine easily, had a motion, felt little or no pain except a kind of smarting along the wound. The husband requested to be allowed to give her a little gin-and-water, as she had been accustomed to take it for the wind with a clove of garlick. I distinctly told him the disastrons consequences that might follow such an attempt, and that on no account whatever must he for a single moment indulge in such an idea; on leaving the room, one of the females attending stated, that she had had much difficulty in dissuading him from giving it to her. Up to this time, the fifth day after the operation, the case had progressed as satisfactorily as could be expected, and even more so, when the nature of the case was considered; viz., an enormous malignant fungoid tumour, at least thirty pounds in weight, distending the abdominal parietes; secondly, the depressed state of the mind arising from the mability to remove the tumour, with the certain prospect of death very shortly, even though the wound might heal; these circumstances led her to indulge the wish to die rather than live. With all these disadvantages she had done well.

Monday evening four o'Clock being the termination of the fifth day, I was hastily summoned in consequence of a swelling accompanied with pain of the left leg, from the toes to the middle of the thigh, the pulse quick, feeble, and thready, still the tongue and general surface was moist and warm; no thirst; and had slept some hours during the day, as well as taken a fair portion of her simple food. It was impossible to reflect on the progress of the case as above stated, the sudden change for the worse without any premonitory symptoms, and the peculiar character of the present appearances, without suspecting some interference of the most unwarrantable description in the nursing, particularly when compled with the wish to exhibit stimulants in the morning of that day. I did not hesitate in challenging her husband with the matter; he, as well as the attendants, denied having given her any of the gin, but neither so positively, nor so free from hesitation and confusion as to lead me to credit their statements. The leg had much the appearance of a case of phlegmasia dolens. Warm emollient fomentations were applied, and some relief from pain derived from them; the pulse, however, rapidly fell to indistinct-ness, and she expired in less than twelve hours from this inflammatory attack on the morning of the sixth day.

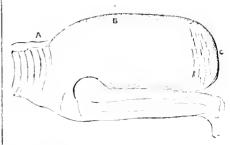
CONCLUDING OBSERVATIONS.

I now earnestly directed my efforts to obtain an inspection of the body; but this the lusband very determinedly opposed; indeed, I fancied be imagined I should be able to detect what I had just reasons for suspecting, and what I learned two or three days after to be the fact, viz, that gin with garlick had been administered under an impression of expelling wind from the stomach. Unfortunately as this ease terminated through the unwarrantable interference of the husband, against which he had been earnestly cautioned, yet it in no way disproves the legitimate principles of the operation. It will be impossible for any impartial person to scan over the record of this ease without acknowledging, that with all the immense disadvantages of the case, there was every reason to hope a more favourable issue from the rapid and satisfactory progress it had made till within twelve hours of death. The ease too, lived sufficiently long to prove the peritoneal section comparatively safe; the wound had in a great measure healed, and all the dreaded circumstances connected with an operation of such magnitude had in a great measure disappeared, and though the case must have soon terminated fatally of its own accord, yet I feel contident the progress of the first few days was so satisfactory, that had justice been done, the case might have lived for some time; as it was, the case was decidedly successful as regards the effects of the wound and abdominal exposure.
CASE THE FOURTH.

When I commenced the record of Mrs. Wheeler's case of peritoneal section, I had no thought of being so soon engaged in a second of the same nature; that, however, has taken place, and more successfully, if possible, than the first; such results naturally increase my opportunities. I have now a fourth case to record, with a prospect, at this moment, of at least four or five more. It is my intention to persevere in this operation until I have produced sufficient evidence to establish a legitimate operation of British (as it is already of Foreign) surgery, or until I discover enough to condemn it. In accomplishing this, I shall find much greater difficulty in overcoming the feeling of reluctance generally manifested by the profession towards any new and bold step (though supported by mimerous proofs), than I should in meeting with condemnation for the unfortunate result of some one or two isolated eases, which in no way affects the principle of the operation, but affords arguments to those who are prejudiced against its being adopted as a legitimate means of relief. In this, however, I am not singular: Harvey met with the most virulent opposition for many years, to doctrines since acknowledged to be founded on truth. Jenner's discoveries were as strongly opposed, and as firmly admitted, subsequently, Cullen's views were attempted to be driven out of the pale of the professional enquirer by the numerous followers of Brown. For stepping beyond his colleagues, Liston had to seek shelter under other than his native skies. And, lastly, the very operation which I have had the honour to introduce to English surgery was used as a means to cry down the talents of that eminent surgeon, Lizars of Edinburgh; and the advocacy of similar means by the ta-lented Blundell, brought the battery of the illiberal part of the profession against him This is not a healthy condition of medical society in the British dominions. The vannted liberality of the medical profession, from Hippocrates down to the present day, is more a matter of history and conjecture than reality. Men practising the profession, not content with the limited views just enough to enable them times; first time in two places, when twenty

to make a living by their exertions, but justling forth their energies and endeavouring to inprove the principles and practice of the science may, and ought to expect the envy of their professional brethren; but this should be entirely apart from an illiberal and uncharitable expression of feeling. In this our continental brethren are our superiors; the spirit of coulation is more generally encouraged; and the spirit of detraction less practised by them, combining together rather to assist the advancement of science than throw obstacles in the way of such advancement. These remarks may appear uncalled for; but this illiberality has already put forth its ugly head, in respect to myself: and it is necessary to apprise the professors of such principles, that every man who has the love of his profession at heart, looks upon them only as incopables or " standstills," as Dr. Blundell justly called them, "Men whose opinious will never reach posterity.' Case of Hannah Edge.

Early History.—Hannah Edge, of Thornset, near New Mills, in Derbyshire, arrived in Manchester by coach from the former place on Wednesday the 2nd of November 1842, to consult me on her very remarkable case; and certainly, I was no little surprised at her appearance; she had the abdomen enormously enlarged, the umbilious almost touching the knees. The following sketch will give some idea of this singular case :-



A, the Sternum.

B, the Umbilieus.

C, Pendulous part of the Abdomen.

From Sternum to Pubes, 38 inches.

Circumference at Umbilieus 51 inches.

When she sat on a chair she formed an indired plane; and when she attempted to walk, the head and shoulders had to be pitched backwards to a very considerable degree, to maintain the centre of gravity, and her arms were used as balancing poles, after the manner of a tight rope dancer; the whole appearance was remarkable, and could only be exceeded by the singular ovarian case of tapping recorded in the MEDICAL TIMES, of October 1st. 1842, By S. S. Brame of Lowestoft, in Suffolk. Her age was 39, tall and emaciated; her health, however, had been generally good, and her family was also healthy; she had had three children. About seven years ago, immediately after the birth of the second child, she discovered a considerable enlargement of the lower part of the belly on the right side, about the size of a person four mooth's advanced in pregnancy; not feeling any particular uneasiness she did not take any medicine for it. Four years ago she was confined of her third child; she was very large at her continement, and afterwards nearly as large as a person at the full period of pregnancy. She thinks the tumour might have existed before the birth of the second child, but did not notice it. After the birth of the third, she applied to different persons for relief, but medicine appeared to have no effect. She had been tapped four pounds of fluid were extracted; second time, twenty-four pounds; third time twenty-eight pounds; making in the whole four tappings. She was so enormously large, that I called in my friend, Dr. Radford, to see her, who joined me in the strict investigation of her case. The parietes were extremely thin, and fluctuation felt equal throughout the whole surface; it was concluded to perform paracentesis abdominis on the following day, (November 3). Accordingly Dr. Radford, Mr. J. Southern, and myself, met, when I pierced the parietes on the right side about midway between the crest of the right ilium and the umbilious; after about thirty pounds of a dark glairy fluid were taken away, when the fluid had ceased to run, a large globular tumour yet remained, the walls of which pressed against the end of the canula. I now placed my patient more on her side, (it must be observed hitherto she had been lying on her back,) and without taking out the caunla, I introduced the spear, and pressed it inwards as far as possible; I penetrated the sac, and brought away thirty pounds more of a bright limpid fluid: I considered the first fluid evacuated was collected in the abdominal cavity viz, ascitic, although the character of the fluid was more that from ex-ts, whilst the latter thirty pounds which were evidently eystic, had quite the ascitic character . Dr. Radford supposed there were two separate cysts, or one large one, with a septem; but as I have soldom observed ovarian cases of long standing without ascitic deposit, I am still inclined to think the first fluid ascitic. She hore the operation of tapping remarkably well, and I felt a strong inclination to proceed with the operation of extinuation, but as the advanced time of the day and bad light interfered, the latter operation was deferred to Friday, (the 4th, of November,) at which time, being isolated from her friends, it was judged proper to defer it until her linsband and friends had been sent for, and a statement of the prospects of the ease had been made to them. This step was taken in consequence of the appearances which presented themselves after the sixty pounds of fluid had been drawn away. The flaceid integuments in closing the tumefied masses hung down between the legs; in the right iliae region was one tumour about two or three pounds in weight, and in the centre above the pulies another about two pounds weight; the etumours appeared to have a membranous connection with each other; higher up and nearly opposite the umbilieus on the left side, a small tumour appeared, which my medical friends considered another connection of the disease. (for my own part, I considered it more as thickened integumental matter, or some other organic enlargement independent of the ovarian disease,) probably the spleen not enlarged at all, but only rendered more apparent by the flaccid state of the integuments, and a little displaced from the previous distention. My medical friends Dr. Radford, Mr. W. C. Vandrey, Mr. G. Southam, Mr. Nursaw, all considered the adhesions very extensive, (and as there is much latitude for opinion in such obscure cases) I must confess I did not agree with them as to the extent of adhesions. It appeared to me when these gentlemen grasped the integuments that they included the walls of the cyst, which made parts of the tumour appear more adherent than they probably were; I was certain some adhesions did exist, but from observations on other cases, I felt convinced that where there were extensive deposits of water, the adhesions were likely to be of a less serious nature, and more easily separated than if the tumours were of a more solid nature, and I may bere mention what appears to be a fact connected with ova-

of the tumour is in inverse ratio to the quantity of fluid deposited. Thus in Wheeler's case. ascitic deposit seven pounds and a half, tumours eight pounds and a half, cystic deposit eight pounds and a half. Beswick's case, ascitie deposit twenty-five pounds, tumour five pounds, cystic deposit four pounds. In the present case, ascitic deposit thirty pounds, cystic deposit thirty pounds, tumour about three or four pounds. This of course arises from the breaking up of the solid into small, and the smaller into larger cysts. The peculiarities developed by this case fully justified my friends in requesting me to postpone the case, in order to make her friends aware that it was a case of great danger, and though no prospect presented it elf for relief otherwise, and a rapid deposition again certain (it being only twelve weeks since she had been tapped before) so that her life would, in all probability, be very short, and accompanied with much incumbrance and misery; still it was the most prudent course not to operate, unless the patient and her relatives after being made aware of the full extent of the danger, were really determined it should be done, ' reinctantly agreed (1 say reinctantly) because it was with no other view the came to Manchester, and I dreaded the delay would create an alarm in her mind that would tell against her in the ea e when sub equently operated upon. Lastly, I esteemed it of con equence, to let one stage of irritation and inflammation answer for both tapping and extirpation. After this, her friends visited her, when with them she was determined to be operated upon, and accordingly the 8th. November was fixed at 12 o'clock a M.

(Yabe continued)

MEDICAL CHARTTES OF IRELAND

(Trom the Dublin Montler.)

We have just received a copy of the Bill for the Better Support and Regulation of Medical Charitie in Ireland, brought in by Lord Eliot. At present we make no comment on its provisions, which put the Medical Charities on a thoroughly different footing from that contemplated by the late Government. We shall merely proceed to give a full account of the clauses, leaving to the profession the discussion of its merits, which to its appear very question-

Sections 1, 2-The Lord Lieutenant shall appoint, during his good pleasure, a Bourd of not less than five or more than seven phy, icians or surgeous, residing in Ireland, of ten years' standing at the least, to act under such regulations as his Lord-hip may prescribe, and to meet at such places as he may direct. The acts of the majority to be binding.

Sections, 3, 4, 5, 6- The Board, as soon as conveniently after its formation, shall report on the state of disease, and the number and des-cription of every Medical Institution in the several Poor Law Unions; and shall make a like report every succeeding half year. They shall likewise, when required, report on the extent of Dispensary relief requisite in each Union, the number of Dispensaries which ought to be provided for the sick poor, and the amount of hospital accommodation for persons affected with fever. They are also empowered to make orders for the medical economy and management of these institutions, with the consent of the Lord Lieutenaut.

Sections 7, 8, 9-Hrs Lordship shall also appoint inspector -- not to exceed four - who have practised for seven years, previous, to in- after the district is declared, obtain a certificate spect under the direction and control of the from the Medical Board, of their fitness for the

rian disease, namely, the size of the solid part Board. Their duty shall be to examine into the administration of all Medical Institutions-to ascertain the qualifications of the several officers who conduct them, to require acturns of the annual income and expenditure of each institution-the number of patients relieved or treated, and the rules which regulate such institutions. The Poor Law Commissioners are authorised to make regulation orders, and carry the act into exeention in all other respects; but their power is dismally interfered with.

> Sections 10 to 16-Lord Lieutenant's warrant necessary to validate the orders of the Poard and Poor Law Commissioners, both of which are to have official seals. Their general rules to be laid before Parliament. Commissioners may form dispensary and fever hospital districts, and either dissolve or after them.

> Sections 17 to 26-In every district for medical relief, governors shall be appointed. Poor Law Guardians, resident Magistrates, Protestant Rectors and Curates, Catholic Parish Priests, and Dissenting Ministers, as the case may be, to be es officio Governors. When the number of a cofficio Governors shall fall short of a number for which a blank is left, the rate payers to supply the deficiency who have been rated in the largest sums of money. Donations of £20 to constitute a Governor for life, and a subscription of £2 a Governor for one year. They shall meet at least once a week; but no inceting valid without five being present. No Governor to act except at meeting. Lord Lieutenant may remove them on inquiry.

> Sections 27 to 32-Governors to appoint Medical Officers, whose duties the Poor Law Commissioners shall define, as well as the amount of their salaries, which are to be paid out of the poor rates. Medical men removable only by the Lord Lieutenant - non-medical by the Commissioners.

> Sections 33 to 39-When any dispensary or fever hospital district is declared, all existing dispensaries and hospitals supported by contribution or Grand Jury grant, to vest in the new Governors; and on vesting, the power of all former, general, and local act-relating to them is to cease. Lord Lieutenant may order Governors to build dispensaries and hospitals, and direct their size and prescribe their plan. He may also order the Poor Law Guardians to furnish di pensaries, and provide all conveniences for the relief of the sick poor. Grand Juvies to present for them in the usual

> Sections 40 to 46 Register books for dispensaries and hospitals to be provided by the Commissioners, in which every case of relief shall be entered. Accounts of all expenses to be kept, and estimates of future expenses to be Lid before the Board of Guardians every six months.

> Sections 17 to 51-No person qualified as Medical Officer who has not obtained a license from the College of Physicians in Iteland, or a degree in medicine of some other College or University in Great Britain or Ireland. No person capable of acting as Apotheeary without a license from the Apothecaries' Hall, or the Incorporated Society of Apothecaries in London, Lord Lientenant may require Medical Officer to be qualified as Physician, Surgeon, and Apothecary, or any two of them, and also to have a certificate in Midwifery.

> There is a saving clause for present medical men not duly qualified as Surgeons or Physicians. Such persons shall within three months

office, and in default of obtaining it, they cease to be officers.

The remaining clauses, twenty-three in number, are of no public importance, being the usual statute stuffing about the competency of witnesses and cerfioraris, &e. &e. We have given the fullest analysis we could, and with the exception of the few first provisions, a more hunbering attempt at legislation we have rarely read. In its present shape, "if shape it can be called, which shape both none," it is wholly unsatisfactory.

DISPROOF OF MR. HALE THOMSON'S ALLEGED SURGICAL IGNORANCE.

To the Library of the ! Medical Fine .!

Str,-Your paper of November 12th contains some stricture; on the professional characters of some of the medical officers of the Westminster Hospital. Among the e referred to in that number is Mr. Hale Thomson, and reference is made to an instance of professional ignorance which he displayed in not knowing the os coccygis from the last phalanx of the thumb. An error of this kind would be glaring indeed lead it occurred in the manner referred to; but this was not the case, I was a pupil at the Westmin ter School at the time this circumstance happened, and the true version is as follows.

Mr, Thomson's hour for reading his lecture was, if I mistake not, 5 P. H., and he lend come into the theatre for the purpose of enlightening the minds of his pupils. The oscocevgis by on the ground, having fallen from the skeleton which hung close to the left of the table. Mr. Thomson saw the home and picked it up, and scarcely looking at it, carelessly exclaimed, 2 A phalanx of the thumb, I Now this is an error which might Lelieve," almost have been committed by any man, and therefore by Mr. Thomson.

Mr. Deshou--not Deschamp--did not purposely ask the question, for lead this been the case there could have been no excuse for the learned gentleman's mistake; neither would the pupil referred to have simply stated to Mr. Guthrie, when he met us on the subject of Mr. Thomson's mode of lecturing that Mr. Thom on "did not know the as coccupied from the phalana of the thumb?" but would have added the fact alluded to in your number for the 12th of this month, by way of making his arguments for a change of teachers more powerful.

I have taken the liberty of sending you this communication because I love the truth, and if a public character commit a fault, let him have the full benefit of facts and truth; and though Mr. Thomson is no favourite of mine—as a teacher, as a surgeon, or as a private individual,--yet I would be the first to endeavour to do away with any erroneous impression which incorrect statements might produce.

I have the honor to remain, Sir, Yours, obediently, AN OLD WESTMINSTER PUPIL

[This, inserted out of our love of fairness, is certainly highly satisfactory! Will Mr. Hale Thomson take a hint given in perfect disinterestedness, and resign a situation which to one with his acute sensibilities must be a constant source of disquiet, chagrin, and self-humiliation? For him assuredly the "post of honour" and even of profit is a private station. The pigmy if small

SPONTANEOUS GENERATION .-- M. Mandl has succeeded, by a microscope magnifying 250 diameters, in detecting the coloured eggs of entozoa in the lungs of frogs in which no trace of the entozoa themselves could be discerned. This, he observes, makes it very probable that these little ova, the diameter of which is scarcely more than four times that of the blood-corpuscle of the same animal, have been carried into the lungs either in respiration or by some other passage.

PHRENOLOGICAL SOCIETY.

A mileting of this Society was held on Mondayevening last, at eight o'clock, in Exeter-hall. The secretary opened the proceedings by exhibiting the eads of two murderers' heads recently obtained. One was that of John Taylor, a farmer, aged 60, excerned for the murder of a woman of abandoned character. Previou by to his acquaintance with her. his character had been penceable. Distressed ciremistances and ill-treatment from her had led him to commit the deed. Cool Premeditation, Cruelty, Cunning, Amativeness, and Strong Sen e of Proporty, formed the chief characteristics of his placenological development. The other east was that of Robert Knorr, aged 30. He had been parted from his wife six or seven times; they had lived very unhappily together; his habits were generally immoral and drunken. He attempted to murder his wife by stabbing her with a knife. He had had several wounds on the head, was flighty, and always extremely violent. Attachment appeared, from the east, to have been the principal organ in his cranial development.

Dr. Elliotson now commenced a highly interesting lecture by exhibiting a cast of the head of Cooper, who was executed at the Old Bailey. He had learned several particulars from the best authority relative to this man. It would appear that he was rather free on the point of appropriation, but had to much caution as to commit his robberies always alone. This was farther shown by his selling the watches he took, uniformly to the Jews. He had never committed murder before, nor even attempted it; and when he did so, it was in supposed self-defence. He was exfremely passionate, as indeed was evident by his menmer on the trial, particularly towards the judgealso by his conduct both to the surgeon and attendants. On one occasion he had attempted to have himself, and at other times had taken arsenic and landamm, for the purposes of elf-destruction The Ductor was present when he was taken from the condemned cell. He had evidently made up his mind that it would be useless to attempt for ther violence. On the trial it was endeavoured to prove him insane, but without sneeds. He lead shown no signs of in anity whatever, from the moment he was taken. He continually a sociated with algudoned women, and was very fond of his mother, but often spoke harshly to her when subjected to her admonitions. When his father died he fainted away. The phremological developments argued great emming. His head was by no mean, so large as Conryoisier's. The Ductor then stated the comparative dimensions of the two heads- Cooper's skull showed Attachment and Love of Offspring. Veneration was wanting. Benevolence was large; this was, in fact, the redeeming quality of his nature, but it was lost amidst untagonist organs. He had never been known to have committed violence, before the circumstances under which he did so, and which were such as almost invincibly to induce it. Dr. Effictson next proceeded to show from this particular east, that a specific form of the head in the parietal region indicated Want of Serupulousness, Extreme Cantion, and Violence of Disposition. As to his insanity, that was doubtful; persons with such heads need not alarm themselves. Their might be many such in the present company; they required education, and that should be early, said, and primanent. All should have the best use made of their organization. When good organs were found, less moral culture was demanded, on the payement is smaller still on a column.-Et.] when bad, more. Human laws were necessary; all dread punishment under its various forms, whether fine, imprisonment, privations, or loss of rights, &c. He would further observe, that the law had no right to punish by inflicting pain. Society should be improved and protected, and erime thus prevented. Prevent erime by culture; infortunately, both poor and rich are badly educated; there is too much false glare and attraction. Honours are paid to those who have not deserved them, to warriors and others who have done no good but much mischief to society. He condemned capital punishments as useless, cruel, and unwarrantable. They did

no good, but infinite harm. It was quite a mistaken notion to suppose that they deterred men from crime. In the Netherlands there were no capital punishments. He had visited their prisons, and in them all classes of criminals were allowed to mingle together. He could not conceive how any human being with jurtitled in shortening for one moment the duration of human life-of the term allotted to man for preparation for a future state. He had been assured by a clergyman, who had much conversance with condemned criminals, that their positence was rarely genuine; besides, the possibility of the conviction of an innocent man should deter from so extreme a course. Look at the rabble who attend to witness an execution. The sight was most dis-custing not only in England, but in France, and every where else. The effect of such exhibitions was to harden the mind and diminish the horror we naturally feel of destroying human life. It was not fair, not right, thus to demoralize society: other punishments might be resorted to. Every mind has some spark of virtue—you may find humanity in a den of robbers, and modesty even in a brothel. All have one grand and solemn object of attachment. - Dr. Elliotson next alluded to the various modes of torture practised in different age, and countries. Death by burning, the rack, mutilation, dungeons, eages, &c.; and said, that cruelty, whether it extended to the destruction of life or another a extended to the destination of the or not, was not necessary to punish or prevent crimes. All might be affected by proper training. It is now well accertained, that the head may alter its form by moral cultivation. There are certain limits beyond which the capability of increase or diminution cannot be carried, but that capability exists. As is the body penerally, so also is the brain particularly. We know not before-hand-how far we can go, how much is to be done, or how little. There is, however, a certain extent of improvement possible. Dr. Elliot on next adverted to the circumstance of the liabits of the parent influencing the e of the offspring in the lower mimals-in sheep, in the Highland cattle, in terriers, woodcocks, hee , &c. He showed how much could be done by training in these -man being at the head of the animal Lingdom, it were singular if he too were not susceptible of improvement. He concluded with an expression of a fervent hope, that mankind would devote more attention to the organic improvement of their species; and annonneed the next meeting of the society, for males only, again t that day fortnight, at the same hour. About one-third of the authence consisted of ladies, who evinced considerable interest in the observation of the lecturer.

FOREIGN LIBRARY OF MEDICINE, SUR-GERY, AND THE COLLATERAL SCIENCES.

Prefusively compiled for the "Mentext Times," from French, Italian, actoffice Contactif d Percola de.]

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* .* The French works above announced, may be had through Dulan and Co., Soho Square.

PERISCOPE OF THE WEEK.

NERVES OF THE TONGUE.-Panizza's experiments on these nerves are confirmed by a case published in an Italian paper. A man 52 years old, after suffering for some time from wandering pains in his limbs, and being actively treated for them, was attacked by pain in the head and dulness of sensation in the left side of the face. The latter slowly extended over the right side also, and to the interior of the face, and ended in complete insensibility of every part supplied by the fifth nerves. Sight, hearing, and the sense of smell were unaffected. Many experiments were made to determine his power of taste; and it was found perfect for all sapid substances; he could distinguish the qualities of each article of food at his meals as well as he could when in health, and could discern the change and loss of savour which ensued when he kept them in his mouth. From the loss of common sensation, however, swallowing was difficult: he could not drink a large quantity at a time, and he was often choked in the attempt to swallow fluids. He was treated with electricity with slight temporary advantage. He died of intercurrent disease, but his body was not examined.

Hypochondriacal Ophthalmia. -- Amiddle aged man, subject to gont, rheumatism, and disorder of the abdominal organs complained of confusion of head. During the day and while in the act of walking he had frequent attacks of faintness, followed by general perspiration. He was sensible of a sudden spasmodic constriction of the right eye-ball, as if it were confined and pressed in the socket, accompanied by an actual twitching upward and downward of the upper eyelid. Objects appeared as if surrounded by a gauzy halo: the patient was unable to read, in consequence of the letters appearing to swim before him. writing was less difficult, although he was continually apt to earry the pen beyond the paper. The eye itself, beyond a slightly diminished activity of the lachrymal gland, be-trayed nothing morbid. There were no objective symptoms; the patient's whole attention was engrossed by his disease, which he was disposed to consider by turns of a congestive, pervous, arthritico-metastatic, &c., origin : he sought eagerly the society and conversation of omlists; disconsolately anticipated the total loss of vision; the patient had, moreover, at a former period suffered from hypochondria, hence the belief that the affection was of an hypothondriacal or psychical origin.

INSECT ORIGIN OF SMALLPOX.-At the Institute, on the 4th of July, M. Serres mentioned the following fact, seeming to favor the hypothesis of animalcules in smallpox. By covering each pustule with a glass capsule, which is kept for some days in its place, he has seen the process of eruption either go on or languish, or be completely abortive, according as the glass was transparent or more or less opaque. This influence was evidently due to the contact of the air. The experiment, he adds, was not merely enrious, for it led to a modification of some of the hygicnic measures adopted in smallpox. Previously patients were generally placed in situations as well aired and lighted as possible; but now one knows that dark situations are far better for this kind of disease, and that this change alone is enough to ensure the most favourable progress of its evolution. The success at La Pitié was never more complete than during one year when all the patients with small-pox had, of necessity, to be put into a low, ill-aired, dark there went on as favourably as was possible. At present, in the same hospital, they are moved from the first floor into the rez.de chaussee, and they do well there.—M. Serres took this occasion to mention that he had seen between 1700 and 1800 cases of smallpox in private and in hospital practice, and that he was certain that the number of those affected with smallpox after vaccination was not greater than that of those who had smallpox twice.—[A contemporary suggests that it may be the light, not the good air, which is favourable to insect development. May it not be both?]

The Physiology of the Spleen.-The Spleen, is supposed by some, says, Dr. Benson. to prepare the Idood for the liver, and by allowing it to stagnate there, to tit it better for the secretion of bile. Others think it is a sort of diverticulum for the blood going to the stomach; and that when the latter is full, and engaged in digestion, that then the blood is prevented from entering the spleen, and directed to the stomach. Tiedemann and Gmelin consider it an appendage to the lymphatic system -that it secretes a reddish fluid, which is carried to the thoracie duct, and increases the coagulating power of the chyle. Dr. Hargrave, concludes that its chief use is to receive the blood, as a temporary reservoir, or diverticalum, when any obstruction in the heart, hings, or liver, renders it necessary that they should be relieved from the pressure of that fluid. The absence of valves in the splenie veins permits of regurgitation, and other circumstances render this opinion probable. He also conceives that it performs a similar office for the mucous membrane and the skin. When the blood is driven from these mem branes by cold or rigors, it is received into the spleen for the time, and returned to the general circulation, as soon as the balance of the circulation is restored in these organs. Certainly the phenomena of intermittent fevers go far to support this opinion —Sundry other uses have been assigned to the spleen. Summering gives an amusing catalogue of them. It was supposed to be-the scat of laughter; the cause of sleep; the seat of venereal excitement, from which the blood was directed to the genital organs; or that it gave origin to the semen in some way or other; that it formed the way of the cars; that the serum which moistens the viscera exuded from its pores; that it formed the blood from the gastric fluid; that it absorb d and claborated the nutritions juices from the intestines: that the nerves imbibed their nutritious juice from the spleen, and carried it to the blood to perfect that fluid; that it secreted some sort of acid, which was carried by the vasa brevia to the stomach, or by its own vein to the heart, to temper the alkaline nature of the chyle: that it concocted (cognere) some atrabiliary humour, which it transmitted to the liver by the vena portae; that it was a sponge, to allow of the stagnation of the blood; that it secreted some fine humour to temper the bile: and that this was carried by the absorbents to their principal trunk, or by the veins to the liver, or by an excretory duct to the duodenum; that it was a sponge, possessing the power of sending the blood into the arteries or veins at pleasure (pro arbitrio;) that the globules of the blood were formed in it, being shaped in a kind of mould by the help of the absorbents; that it was merely to balance the liver by its bulk and weight; that it was of very little use; that it was of no use at all. - Soemmering's own opinion was that it prepared and fitted the blood for the secretion of bile. And Paley, in his beautiful remarks on the "Package" of the viscera, suggests that the spleen may be

hollow, which, unless occupied, would leave the package loose and unsteady. Perhaps, Sommering, Paley, Tiedemann, and Hargrave are all, to a certain degree, right, and that the spleen, like the nose, the mouth, the nrethra, and many other organs, serves more than one useful jurpose in the economy. The fact that it has been removed in experiments on animals, and after accidents in men, without affecting the health, would prove that it has no function essential to life to perform, and renders it probable that it may be subservient to several less important, though doubtless, useful purposes, It does not appear that the spleen has any wellmarked animal sensibility in its healthy state; neither does it show any contractility when timuli are applied to it; but it possesses a power of expanding and contracting its texture, to receive and expel-blood, in a very eminent degree, after the manner of crectile fissues.

PROPERTIES OF ARTERIES. - (From a Corespondent.)—The relation between the clastic and contractile properties of the arterial system, might have been argued from the influence which its different portions are known to exert on the circulation. In the large vessels, the object is not merely to adapt their capacity to the amount of blood contained, but also to render its successive progression continuous, and this may justly be considered as their most important function. It is obvious that a physical elasticity would suffice for such a purpose, and consequently this property should be the main feature of large atteries. We do not infer that elasticity, independently of a vital contractility, is calculated to resist the continued impulse of the circulation. Contractility thus comes to be a minor item in their character, and it is for this reason that so many physiologists have failed to detect it. Berzelins, Nysten, Bichat, Wedemeyer, and Muller, could not perceive the slightest contractions in the large arteries when excited either by powerful galvanic and electric stimuli, or by mechanical irritation; and yet, these vessels are possessed of a low degree of contractility, as already hinted, and as proved by the experiments of Hunter, Parry, and Williams. The reverse of this obtains in the small arteries, where the agency of contractility and not that of elasticity is required. That these vessels are endowed with considerable contractility s evinced in the experiments of Hales and Wedemeyer. From these remarks it may be deduced, that whilst elasticity is mainly characteristic of the large arteries, contractility is so of the small, and it is interesting to find that the respective structure of these vessels confirms such a conclusion. According to Heale, the inner portion of the external coar consists of pure elastic tissue, forming a layer of tolerable thickness in the large arteries, which diminishes in direct proportion to their size. And it has been long observed, that the middle or contractile coat increases relatively in size as the arteries decrease in calibre. This view of the subject is that taken by Hunter, and it is curious to remark, that his notion of the unscularity of arteries is abouted by the recent researches into their microscopic structure.

modification of some of the hygienic measures adopted in smallpox. Previously patients were generally placed in situations as well aired and lighted as possible; but now one knows that dark situations are far better for this kind of disease, and that this change alone is enough to ensure the most favourable progress of its evolution. The success at La Pitic was never more complete than duting one year when all the patients with small-pox had, of necessity, to be put into a low, ill-aired, dark ward, a sort of cellar. The confinent cases of the strength of the blood were formed in it, being shaped in a kind of mould by the help of the absorbents; that it was merely to balance the liver by its bulk and weight; that it was of very little use; that it was of no use at all.—Socumering's own opinion was that it prepared and fitted the blood for the secretion of bile. And Paley, in his beautiful remarks on the 'Package' of the viscera, suggests that the spleen may be ward, a sort of cellar. The confinent cases

fact, it seemed as if it had dropped from the abdomen after the other, but had not been permitted to fall so low in the scrotum as to touch it. In consequence of this arrangement the lower testicle was not at all pressed upon by the upper. On the left side the spermatic cord was perfectly natural in all respects, and was easily traced from the groin to the testicle to which it belonged. On the right side, however, the cord was much thicker than natural at its upper part, where, in fact, it consisted of two cords, one of which was distinctly traced into the upper testicle on this side, and the other, much longer into the lower testicle. In each of these parts, as well as in the cord on the left side, the vas deferens could be distinctly felt, like a piece of whipcord, between the fingers. Mr. Prankerd, of Langport, furnishes a second ease perfectly similar, except in the fact, that the supernumerary body occupies the left side. Dr. Macann's case appears to have been congenital-Mr. Prankerd's however, has this singular explanation, as to cause:--Whilst a very young child, a nurse-maid had, in play, ernshed the testicle with a pair of tongs and on recovery from the injury it was found that the testiele was divided, and has ever remained so since; gradually increasing in bulk with the growth of the person. In both men, there appears to have been great sexual vigour.

Quinine in Typhus .- At the instance of Signor Broqua, a medical practitioner at Piacenza, the sulphate of quinine has been used in frequent doses on patients suffering under typhus fever, in the Hopital Cochin, in Paris. The doses, administered by Broqua himself, were usually from one and a half to three grains hourly, during both day and night. In the French hospital they varied, in different cases, and at different periods of the disease, from fifteen to ninety grains in the twenty-four hours. M. Laurent presents in the "Archives Generales de la Medicine," for Sept. 1842, a summary notice of its effects, as observed in eleven cases treated at the Hopital Cochin; from which it appears that the most marked influence of the remedy was on the pulse, the frequency of which it uniformly diminished. Many uppleasant symptoms resulted during its employment, such as a dry ness and heightened color of the tongue andfances, which probably prevailed throughout a great part of the alimentary canal, being accompanied with intense and sometimes insatiable thirst; pain in the chest and epigastrium; abundant diarrhea, and occasionally bloody stools; frequent vomitings, which ceased on abandoning the use of the remedy; deafness and ringing in the ears, which did not invarably cease with the cessation of its employment, &c. Certainly, out of the above eleven cases in which the sulphate of quinine was tried at the Hopital Cochin, only one terminated unfavourably; but M. Lourent is, notwithstanding, by no means sanguine of having found in it a remedy for typhus superior to others; and, indeed, were it so, its expense would be urged as an insuperable bar to its general adoption.

CURIOUS RESEARCHES IN PHIBISIS.-Rayer asserts that he has ascertained the following facts respecting this disease. is of all chronic diseases that which is most common to man and animals. In man, and the other mammifera, the tuberculous matter is readily distinguished from recent pus; in birds its characteristics are less marked; and in lower animals still less so. Pus, however, in the mammifera, and especially in the horse, after a long persistence in eertain organs, undergoes successive changes, alcohol.

in the course of which it sometimes assumes the aspect of tuberenlous matter. The internal softening of tubercles is not attributable to inflammation; but their external softening is, on the contrary, most commonly by the inflammation of the adjacent tissues; and almost always the tuberenlar matter is mixed, in the latter case, with globules of pus. The calcareous concretions seen in the lungs of man and animals must not always be considered as tuberculous. They are often, in man and in the horse, the residue of purulent deposit. Phthisis is in our climate and in France, by far the most frequent chronic disease in animals the natives of distant countries. It attacks not only animals from warm, but others from cold climates, as the rein-deer, &c. It is comparatively rare, however, in the solidungula and caroaria; and the horse and dog are much more subject to cancer than phthisis. The bony disease presented by the monkey tribes, particularly those of South America, when suffering from phthisis, appears to be analogous to the deformities, swellings, and spongy softening of the bones in phthisical and scrofulous children. Similar diseased alterations are observed in the bones of carnivorous animals transported hither. Phthisis though hereditary, is seldom congenital, even in a rudimentary form. The seminal fluid of plithisical persons is remarkably destitute of animalculæ.

PREPARATION OF THE LACTATE OF IRON. $-\Lambda$ ccording to Pagenstecher, the lactate of lime, which is easily obtained from sour milk, and lactate of ammonia, may be employed to advantage in preparing the salt of iron. Common carbonate of ammonia of commerce is added to the solution of lactate of lime, the carbonate of lime removed by filtration, the liquid concentrated by evaporation at a gentle heat to the consistency of a syrup. This concentrated solution of the lactate of ammonia is mixed with six times its weight of alcohol of sp. gr. 0.879, and a concentrated aqueous so lution of protochloride of iron now added, the quantity of which is hest determined from the lactate of lime used for the ammonia salt; for 100 parts of the lime salt, CaO, L + 36 ag 38 parts protochloride of iron containing 16:48 iron. Soon after mixing the liquids the solution becomes turpid from the separation of the lactate of iron, which continues forming, and is completed within 24 to 36 hours. The mixture then presents the appearance of a white syrupy mass, resulting from the separated crystals of lactate of iron; it is freed from the liquid portion by straining and pressure, edulcorated with alcohol, strained and pressed again, and then dried, spread out in thin layers between folds of bibilous paper at a gentle heat. The preparation thus formed is a light crystalline powder of a whitish yellow colour and agreeable ferrous taste. To obtain it perfectly white it should be dried in vacuo over sulphuric acid. It may also be formed direct from the lactate of lime without first converting this into the ammonia salt; but the less solubility of that salt in alcohol, and the difficulty of freeing the preparation from adhering chiloride of lime, renders the employment of the lactate of ammonia preferable. A slight residue of perel·loride of iron, arising from an oxidation of the prootosalt, is moreover of no con-equence in preparing according to the above method, as the lactate of the peroxide of iron is insoluble in

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THE MEDICAL TIMES

A Journal of English and Foreign Medicine and Medical Affairs

No. 167. Vol. VII.

LONDON, SATURDAY, DECEMBER 3, 1812.

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ON THE LAWS OF THE DEVELOPMENT OF ORGANS; OR, TRANSCENDENTAL ANATOMY APPLIED TO PHYSIOLOGY.

Rv P. R. V. SERRES, Member of the Institute, of the Academy of Medicine, Professor to the Missoni of Natural History, Parra, Ne., Ne., Ne.

Summary.—Relationskip between Organogeny and Comparative Anatomy-Parasitical life of beings -Division of the organisms so much more marked as we descend in the scale of life-Various states of the organs in the course of their formation, repented in a permanent manner by their analogues in the series of unimals-Heart-Os Hyoides-Sternum - Superior Maxilla-Kidney.-Prostate. - Uterus.-Penis-Clitoris, Se.

In my previous observations, I have shown you the relationship which human embryogeny bears to comparative anatomy. In the organisms of the animal kingdom, we see produced upon a large scale, and in a permanent form, the various conditions traversed in so rapid a manner by the organisms of the human embryo. In the embryo, this passage is rapid, in consequence of the energy of its vital powers; while in the lower animals, organic life is comparatively feeble, and anable to traverse the course marked out for the human species. I will now enter more fully into this sub-

In the human species, we name the early part of the period which the product of conception passes in the uterus embryonic. This period is devoted to the formation and development of the organisms essential to extra-nterine life. organisms formed, the product then takes the name of fectus, which usually happens about the seventh month. Every fiving body is termed an embryo, which is developed by generation upon a body larger and of the same species as itself, to which it primarily adheres, but from which it becomes detached to pass from a communicated to a separate and peculiar state of existence. Thus, in its rigorous acceptation, embryogeny embraces only the duration of the parasitical life of a living body, during which those organisms essential to a free and independent existence are developed. The study of the formation of these organisms, that of the connecting media between the embryo and the parent, of the especial coverings which surround it, and of the temporary organs required during this borrowed life, constitute then the domain of this branch of science. Every one, however, must be aware, that life is not uniform throughout the animal kingdom. Very limited in some beings in whom the parasitical state never entirely ceases it becomes, on the contrary, exceedingly complicated in others, especially in man, where it attains the highest degree of development. The parasitical life of the embryo undergoes the same variations: some being detached earlier than others from their parent, it necessarily results that in their subsequent life they retain the sum of organic developments which they had acquired at the moment of their separation.

Parasitical life being then devoted to the formation and development of organisms, it follows, as a general rule :- 1st. That the number and perfection of the organisms of an animal will be in direct relation with the time employed in their formation, and consequently directly proportioned to the duration of their embryonic life; -2nd. That the more the organisms are limited and imperfect, the shorter will be the free and independent existence succeeding to the embryonic life of the animal ;-3rd. That the shorter the independent life, the more rapid and numerous the reproduction of the animal; -Lastly, in some species, or even in entire classes of animals, life may be, and is, sometimes, carried on with organisms arrested at some period of development, proper only to embryonic life. The more we descend in the scale of life, the more imperfect we shall find the organisms: for nature strictly proportions her means according to the ends she has in view.

As a general law, we find that as we descend from man among the vertebrata and invertebrata. the organisms become proportionally disassociated or simplified; so that on arriving at the bottom of the animal scale, we find them reduced to their most simple outline or elementary form. Another law not less general is the following: if we trace the development of a complicated organism in the superior vertebrata or in man, we find that it commences by a state of remarkable simplicity, but that each of the transformation, which it undergoes complicates it more and more, until it arrives at the normal state which ultimately characterizes it. This is not all; for if we compare the organology of the inferior animals with the first stages of the organogeny of the superior vertebrata, we find that the primary outline of the organisms corresponds in both calles. So that, the organisms of the human embryo in the course of their development traverse successively the states presented by the same organisms in the families, genera and classes composing the animal kingdom. Considered in this point of view, the animal series is but a repetition of the embryonic transformations; the one is the reproduction of the other. We now, however, come to more particular facts.

Let us take the heart as a first example: very complicated in man, the mammifera and birds, this organ becomes gradually more simple in reptiles, fishes, the crustacea, the mollusca, the annelida and insects. In each of these steps it loses, either a portion of its elements, or a part of its muscular structure, becoming in insects and the annelida a simple straight or curved canal. So also with the young embryo, the heart commences under the form of a canal, at first almost straight, then enryed, thus in form and structure corresponding exactly with the heart of insects, the annelida, and some crustacea. At the second stage of formation, the anrieles become added to this canal, producing three distinct cavities; a ventricle in the middle, and two auricles placed upon the sides and at a distance, exactly in the same manner, as in the heart of the acephalous mollusca; then the two anrieles are brought into contact; in the embryo of the bird these two sacs are united into one; so that we have a larger ventricle, and a single arricle still more developed, A condition exactly similar is found in the cephaloid mollusea. These two stages of formation of the heart in the vertebrata represent then in a transient manner the permanent condition of this organ in invertebrated animals. But, as we know, this viscus is not arrested at this state in the superior animals; in the course of its developments, the single ponch of the puricles becomes divided into two cavities by the interposition of a central partition; and this partition, according as it is more or less complete, represents that of certain fish, and some reptiles, as the tortoise, &c. Lastly

by the same mechanism as the anricles; and that stage where the ventricular partition is not perfeetly closed in birds and the mammifera, is an exact repetition of the permanent arrangement of the ventricles in the snake tribe, especially the adder. We may remark, that in the embryogeny of the superior vertebrata, as well as in the anatomical scale of fishes, reptiles, and the inverte-brata, the development of the auricles generally precedes that of the ventrieles. Thus are the various stages of formation of the fetal heart an exact repetition of its permanent conditions in comparative anatomy. The same may be said of the blood-vessels. For at the periods when the heart represents a mere canal, all the blood-vessels of the embryo are venous, the same as in the anuclida.and most acephalous mollusca. The arteries do not acquire the structure which distinguishes them from the veins, in the embryo of vertebrated animals, till the muscular coat of the left ventricle is perfectly formed. The same is observed in the cephaloid mollusca and erus-

We see, then, that when an organism is found in a divided state in the human embryo, we may be certain of meeting with it in a similar combtion in some animals arrived at the term of their development. The multitude of pieces of bone in the cranium of fishes, compared with the number of points of ossification in the feetal cranium, is one of the most striking examples of this general law of organogeny. We find a similar confirmation of it in the separate pieces of which the sternum is composed in certain manimitera, in reptiles and fishes. These permanently isolated portions are represented by the primitive nuclei, so perfeetly distinct, of which the human sterum is composed from the second to the fifth month of intra-uterine life. The same may be said of the os hvoides.

In the adult man, the superior maxilla is a single bone forming, as we know, the greater part of the face, and incasing the organ of smell and part of that of taste. These senses being limited in the human species, the bone which protects them is also limited; it is simple and undivided. But in proportion as we descend from man, these senses increasing in capacity and extent, the protecting bone is extended with them; but while expanding it is divided; its constituent materials are isolated. The first isolation, or fractional state, found in the human embryo, is that of the incisor bone of the herbivora and ruminantia. This osseous element is so distinct in animals, it stands out so prominently from the rest of the bone, that unable to refuse considering it as a distinct piece, according to the views of Camper, who considered its absence the char acteristic of man, anatomists directed their attention towards discovering it in the human embryo; in this they soon succeeded, for the traces of its division sometimes remain even beyond birth. This fact, placed beyond all doubt, by Goethe and Vieq-d-Azyr, serves to explain the formation of one portion of the alveola. But, independently of the other cavities, contained in its substance, this bone presents a hole for the passages of the sub-orbitar nerve and artery. These cavities requiring for their formation a large number of pieces of hone, I endeavoured to discover them in the young embryo; now, from the third to the fourth month of conception, I constantly found in the human embryo five distinct pieces subsequently uniting to form the superior maxilla. M. Geoffroy Saint-Hilaire also, in examining the head of the crocodile, ascertained in these reptiles the permanent division of these five pieces. The crocodile then represents permanently the condition offered by the embryo at the third month in reference to this bone. We have before said, that in the human embryo, the kidney, which in the adult the ventricle in its turn becomes divided into two forms a single organ, is in its original state a multiple or many-lobed viscus. I have sometime on it formed of eight, more frequently of sincer of four small kidneys on each side. Every anatomist must have seen this arrangement, which is the primitive or normal state of the organ. in descending from man to the animal kingdom, we shall find this transient condition of the embryo presented in a permanent manner by the various species of adult mammifera; thus in the elephant the kidney consists of four lobes, in the ax of twelve or fourteen, in the otter of two, and generally speaking of two also in the feline tribe, as well as in most birds. The organogeny of the human embryo is then but a transient comparative anatomy, presenting to us in a successive manner the permanent conditions of the lower orders of animals. It was for a long time a debated point whether the thin will gland, was a single or a compound hody. Without the intervention of organogeny, this dispute might have been interminable. For as Haller first observed, this gland, simple in the adult, is constandy double in the young embryo, the right being perfectly separated from the left, and their union not being accomplished till an advanced peried of embryonic life, in a similar way to what cometimes takes placewith the sublingual glands, the amygdalæ at the root of the tongue, and the two kidneys in front of the north. The prostate again, although of a distinctly lobuar appearance, presents, in the adult, a body of a uniform and connected aspect; in the embryo, on the contrary. it is composed of four distinct and isolated lobes. Towards the fourth or fifth mouth, the two inner lobes become united, and the prestate then seems to be composed of three lobes only. Later will, that is to say, between the sixth and cighth months, these three lobes become intimately united one with another, forming, like the kidney, a single organ, but in which we may, by careful dissection, discover the traces of its primitive or; anization.-The same may be said of the aterns, which in the cornivora and herbivora, presents manifest traces of division, and which in some species of animals, as the caria of Graelin, and especially the hare, is composed of two distinct organs, opening separately into the vagina. So in the human embryo hetween the second and third month, this viscus is formed of two distinct cavities; thus passing through the organization of the lower animals before reaching its ultimate state of unity in the adult female. We here see a striking re-emblance between the uterus, the prestate and the thyroid; a powerful argument in favour of the analogy of the ethree parts.

We know that the primitive homogenety of the two sexes is one of the most emions discoveries of embry ogeny. Originally there is neither male nor female; at a second stage, all are apparently females (I say apparently); then the organs, seemingly female, transform themselves into male organs. All females, at a certain period of their formation, have then the appearance of being hermaphrodites, and at a certain period also we might without careful examination to take males for females. These latter appearance amunitest themselves in the human embryo toward the end of the second or the beginning of the thord month, and in the ox, the beep, the dog, and the cat, at the first third of their formation. This disguise in the sexes arises from the constancy in the mechani m of their formation. At first projectine forward., the genital organs are not enclosed in the policie. The elitoris and the penis form a very marked projecfrom below the radimentary abdomen. The diforis and vagina, at first divided along their entire length, become united in front, and pre-ent an cularge-ment at their summit, which is also divided upon its inner surface. Below this b dy, we find the skin bifid presenting two small folds; the internal, proceeding towards the root of the enlargement which terminates the body from whence the elitoris or penis arise; the external, enclosing the latter organs within its folds. The first of these folds ultimately constitutes the nympha in the female and the prepare in the male; the external gives birth to the labia majora and the scrotum. On reparating the first fold, we see a small opening, which is the external critice of the methya, equally distinct, at this period, from the extremity of the clitoris and from the glans. In a female embryo

of four weeks I could discover no vaginal opening, When the pelvis is united in from, it forms a very projecting angle, from the branches or rami of which arise the crura, which by their junction constitute the cliteris and penis. The more acute this angle, the more the genital organs project outwards, and it is at this period especially, that is to my from the fortieth to the fiftieth day of embryonic life, that these little beings would all be taken for males, if we considered only the external appearance of the genital organs; as, in like manner, at the commencement of the second month they might all be mistalen for females, when the cutaneous folds, from which the scrotum and labia majora are to arise, have not become entirely muted in the male. Now, this embryonic similitude is found in an exact state of repetition in many adult animals. The volume of the clitoris, says M. Geoffroy Saint Hilaire, equals that of the points in several species, even among apes, and the resemblance is so great, that females are often taken for males. In some species the glans penis, as well as the clitoris, is bifurcated. The rabbit is remarkable in this respect; in it the pons is an exact repetition of that of the embryo between the fourth and fifth week, in the same way that the cornua of its uterus are a striking copy of that of the human embryo from the fortieth to the fiftieth

In the commencement, the uterus of the young embryo represents two small tubes drawn near together, but not united one to another. In the -econd stage, the two vaginal extremities of these tubes are joined, though not intimately. In the third, they are incorporated and intermingled. The neck of the uterus, previously double, becomes unique; but at the same time that this union takes place in front, a separation of the remainder of each tube is accomplished posteriorly; and which produces the utcrine cornua. At the fourth stage, the incorporation which has taken place between the two needs is prolonged behind, and the formation of the body of the organ begins. This body, unique in front, is still double behind, from the persistence of the remains of the two tubes entering into the formation of the uterus. Lastly, at the fifth stage, these tubular remains, becoming united like the rest of the body, give rise by their a sociation to a simple uterine body. Let us now apply these principles of human organogeny to the comparative anatomy of this organ. The utern, properly so called, exists only in the mammiferac; its form and character are, however, very variable in the different classes of animals. I have shown that the varieties in form of the feetal uterus are dependent on the original separation of this organ into two parts, and on the various stages through which it passes before reaching its ulti-mate state of unity. We will now see whether we council trace a resemblance in the animal bingdom; whether we shall not find in the uterine forms of the mammifera, the various stages of formation traver od by this organ in the human embryo. The first stage of interogeny is represented by the monstremata, in which the uterns, properly speaking, is absent. Their oxiducts terminate in two dilatations, completely eparated one from the other, and opening in a pecies of closes. The celidan and conthechies are, in this respect, intermediate between birds and the manuailera. The second stage is shown in the manuapialia. The dilatations of the inferior extremity of the tubes in this class of animals, in tead of remaining separate, as in the ropotron ito, are brought into immediate contact, in the same manner as in the frog; they are not, however, united into a single organ; the nterine body, as well as the vagina, is divided by i central partition, into two separate cavities, produring, as it were, two sets of genital organs. The and may be observed in the kangaroo, and, occasionally, according to Tiedemann, in human mon-The third stage of merogeny is charactorized by unity of the vagina and plurality of the atom; openine by distinct critics. This is the the 186 mrs opening by distinct oritics. ense with most of the ruson set the have, the rabbit, the beaver, therat, the most cethe gainer pig. This condition has been met with by Morand, Dupnytren, and Tiedenamn, in the lumon race. These stages, as I have said, may all be traced in the carly formation of the buman embryo. Let us,

however, follow the conversion of these two uteri into a single organ, bearing in mind that, in the human race, this takes place from before backwards, or from the neck towards the fundus of the organ. Now, a course of development exactly similar is found in the manumifera. In the carmivora, some rosores, the cetacea, &c., the unity of the interns has already commenced; but the neck, properly so called, is not fully developed; the uterine cornua are still distinct posteriorly, being sometimes straight, as in the dog and the eat, sometimes bent or curved back, as in the mole and the hedge-hog. In the runinantia, the neck is much more developed posteriorly, and a small but perfect cavity is formed, communicating with the two cormia which are strongly curved backwards. These two processes show, in some measure, a tendency to union in certain cases of gestation; for when there are two ova, one in each cavity, a part of their membranes is carried along the neck, from one comm to the other.

Up to this point the body of the uterus is double in the strict acceptation of the word. But in the soliped swe have a partial unity in the body. Here we have a single uterine eavity constituting about two-thirds of the uterus; but the posterior third is still double. These remnants of the uterine cornia have, however, lost the active share which they previously enjoyed in the act of gestation. They no longer receive the ovum; gestation is entirely carried on in the uterine cavity. In some of the monkey tribe again, the torm of the interus is still more approached to that of the human species; but its axis is more longitudinal, and its fundus has rounded and concentrated than in woman.

PRIVATE COURSE OF OPERATIVE SURGERY.

SURGERY.
By J. NOTTINGHAM, Eq., Membar of the Royal College of Surcoursed London.

LECTORE V.

Become, during, and after the performance of surgical operations, means are employed for limiting as much as possible the quantity of blood lost by the patient. Before operations, as well as during the time of their performance, we avail ourselves of pressure on the arterial trunks to prevent a dangerous effusion of the vital fluid immediately after the knife has been employed; the larger acteries which have been divided are seemed by ligatures, before the edges of the wound are approximated; we afterwards trust to position, temperature, and quiet, &c.; each of which may be made to tell favourably on the circulation, and to share the work of preventing hemorrhage. In the modern practice of surgery, the arresting of bemorrhage by the actual or potential cantery, or by styptic drugs, is eldom had recourse to; and when we see a surgeon arm himself with such weapons, we are apt to third, that he suspects the efficiency of his better resources, or that he is not an nirean with the present state of chirurgical art. Before the period when the circulation of the blood began to be generally understood, surgeons must have experienced great difficulties in the arresting or preventing of hamorrhage; and the history of the surgical department of the healing art contains records of many appalling practices employed to stop dangerous bleeding, such as plunging the stump after amputation into boiling pitch, searing its sensitive surface with the hot iron, or applying strong acids or other corrosive substances to it.

The progress of anatomical and physiological knowledge, the invention of the tourniquet, and the study of the true scientific means of restraining haemorrhage have long since driven all such horrid practices out of sight, and their record only tends to show how many and how varied the degrees of progress in any art must be, before it arrive at a state approaching that to which the term perfection can be applied.

In amputations of the extremities, with the ex-

In amputations of the extremities, with the exception of the smaller operations about the hands and feet, the main artery of the limb is compressed against the nearest bony surface, by the tingers of an assistant, sometimes aided by a pad of some material, which may be easily thrust down upon the arterial trunk, or with the aid of a tourniquet | be applied, and that the strap be sufficiently strong to encircle the lenb, or of some other apparatus more or less analogous in its effects, such as the compressor of Dapuytren, or the Italian tourniquet, or jointed bow of steel, which some of the English instrument makers have supplied us with of late. There is, doubtless, some disadvantage about every apparatus here alluded to, and if the assistant of the surgeon could be relied upon, and his strength were not likely to fail him, there is little doubt but his fingers would, upon the whole, be better than any tourniquet or compressor; for they occupy less space, and are not so much in the way of the operator, and do not interfere with the retraction of the divided parts, complaints which are brought against the tourniquet; nevertheless it is not so easy to get the end of the fingers nicely haid over the course of the artery in some cases, as might at first be supposed, and every one who has acted as assistant on any occasion, and has compressed the temoral artery with his fingers during an amputation of the lower extremity, knows how fatiguing this effort soon becomes, and has wished, I would venture to say, that the tourniquet were there instead of his fingers, whether the surgeon would like it or no. On all occasions, the tourniquet should be present, whether emplayed or no may depend upon circumstances, and, by the tourniquet, is to be understood, the instrument commonly known by that name, for which various substitutes may be found if occasion require. In any case of alarming hemorrhage where the tourniquet is not at hand, the turn-stick which may easily be made, supplies its place very well; a pad, piece of leather for the tape to pass through, the tape and stick being all that is required; and these might readily be made out of some article or other to be found in every man's abode.

For very olwious reasons, the application of the tourniquet is confined to the extremities; compression of arteries by it within the trunk being impossible, as also of those in the neck, because of the parts with which they are associated, and of their wanting bony support sufficient for this purpose. We need not here do more than allude to the attempts at compressing the aorta-through the abdominal parieties, as in cases of uterine has morrhage, &c.; as these matters do not belong to the subject with which we are occupied.

Arterial branches outside the skull occasionally require to be compressed to arrest hemorrhage or with the hope of curing ancurismal tumours, their vicinity to the bone facilitating this mode of treatment; this, however, will be afterwards alluded to. We may now proceed to notice the different applications of the tourniquet, and of pressure applied by other means in cases of amputation of the extremi-ties. The great arterial trunk of the lower extremity may be compressed; 1st. against the body of the pubes-by the fingers of an assistant, with or without the aid of some pad or instrument, such as the bow of a key covered with lint to assist the effort we have to make. 2ndly, against the upper and inner part of the thigh bone; and, 3rdly, against the lower and back part of the thigh bone or in the popliteal space with the aid of the tourniquet; either of the two latter modes will suifice in amputation of the leg, the first or the second must be chosen in amputation of the thigh.

Before the application of the tourniquet, many surgeons pass a of piece linen around the limb, -te prevent the tightened-strap doing any injury to the corresponding portion of integrament,—the plan, however, adopted by Professor Ferguson, seems to be at once the neatest and most convenient, -nsing a small calico roller for a pad, and turning the free end of it once or twice round the limb, and then leaving the roller over the situation of the vessel, to be afterwards pressed home upon it by the tightened belt of the tourniquet. Before the tourniquet is applied, the girth should be sufficiently drawn out, and the buckle along with it, lest in tightening the instrument the buckle come in the way. It would seem searcely necessary to offer any particular directions regarding the mode of applying the tourniquet, its application will be found easy to every one who has studied its me-chanism; but a little care should be taken that

to resist the atmost turning of the screw without danger of breaking. In applying the tourniquet to the upper part of the thigh, the instrument may be outside the limb, the roller or pad of course inside, or over the artery, the buckle in front of the limb, or between the other two, and the same arrangement of the parts of the tourniquet may obtain in applying it to the upper part of the humeral artery; in its application in the popliteal space. which is well suited to eases of amputation of the (leg, especially where it is desirable that very little blood shall be lost; the tourniquet may be in front, above the patella, the roller (here required to be thicker) behind, the buckle outside the limb, After the instrument is applied it is to be tightened gradually, until pulsation can no longer be felt on the arterial branches below; after which any additional pressure is unnecessary. If the tourni-quet be applied as far as possible from the seat of the operation, it is less in the way of the manacuvres of the surgeon, or of the retraction of the integument, so that as a general rule, it is better to take advantage of these conditions, than to seek the saving of a very small quantity of blood by applying it very near to the parts to be divided." After the removal of a portion of a limb by ampu-

tation, the divided arterial tranks cannot always be readily detected, and it may be requisite that the assistant should lessen his pressure, or gently stacken the tourniquet, so as to afford the surgeon an opportunity of seeing clearly the divided vessels whence the arterial jets come forth; a very slight turn of the screw will often suffice, and greater slackening of the hold should be avoided until the divid divessels are secured by ligature, when the fourniquet should be immediately under quite loose, although its strapmay be left encircling the limb, the instrument itself lying near, ready to be employed in ease of accident, such as secondary hemorrhage, &c. In the axilla, the axillary arartery may be easily and effectually compressed against the head of the humerus, either with the ends of the four fingers alone, or aided by a suitable pad; and here it may be well to recollect that the artery is situated at the union of the anterior with the middle third of the axillary space; in the groin, as before-mentioned, the commencement of the femoral artery may be compressed against the body of the pubes, the fingers, or the fingers and pad being employed, as in the other case, and if we notice carefully the form and position of that part of the bone immediately above the thyroid foramen, we shall at once perceive that the right direction of the pressure to be exerted here is downwards, backwards and inwards. In amputation at the hip or shoulder joint, the femoral and axillary artery are compressed by an assistant, who introducing his fingers into the wound, seizes these vessels before their division by the knile of the surgeon.

Having briefly noticed the mode of compressing the arterial trunks of the upper and lower extremities, chiefly in connection with amputation, we proceed to state the method of compressing other arteries, such as may now and then be required in various cases of disease or injury. On account of the vicinity of the larynx and frachea, we seldom attempt to compress the primitive carotid; this, however, may be done, particularly at its upper part, by pressing the vessel against the corresponding portion of the cervical spine.

The facial artery, or external maxillary, at the anterior border of the masseter muscle, may be compressed, perhaps, more easily than any other in the body, one finger sufficing to press the vessel against the corresponding portion of the lower jaw; and the temporal may be compressed in the same way, in front of the external car. We need not offer any remarks on the compression of other small arteries of the same region; for if a wound on the head be attended by troublesome bleeding, compression of the wound itself, on account of the smallness of the arteries and their anastomoses, is better than an ineffectual attempt to find the chief arterial source of the hemorrhage. With the aid of a common door-key, the bow or handle wrapped with lint, I have compressed the subclavian avery on the first rib, during amputation of the arm, the instrument is in perfectly good order before it mear to the axilla; this, however, is a doubtful

sort of proceeding, the motions of the clavicle and shoulder disturbing, with every writhing effort of the patient, the repose of the part where the pressure is exerted. The axillary artery may be compressed by the fingers, as before remarked against the head of the humerus- and it has also been proposed, by Dahl, to compress it below the clavicle on the second or third rib; in this ituation, however, it is so thickly covered by musele, that such compression can seareely be effected by the fingers, and Dahl contrived a peculiar tourniquet for the purpose, which, however, has never been employed. The brachial artery may be compressed against the humerus, recollecting its course on the inner border of the bieeps muscle, corresponding, as it were, to the course of the seam in the coat-sleeve. Where the pulse is generally felt, the radial artery may readily be compressed against the bone,—the uluar in the same number, in the lower third of the fore-arm, between the tendons of the flexor sublimis and flexor carpi ulnaris; but this compression, like that of the radial artery, is seldon employed. The digital arteries are readily compressed at the line of union of the inner and anterior aspects of the fingers. I have known life to be lost by wounds of the iliac arteries, and also by wound of the internal manniary; so that, to be able to command, more or less, the arterial system of the trunk of the body, is an acquisition to be desired by the surgeon. It is not long ago to be desired by the surgeon. It is not long ago that a man, in Liverpool, lost his life by being stabled in the groin, the iliac artery being wounded. In such cases, death las often taken place before the surgeon could possibly arrive by the side of the sufferer; if in time, compression of the aorta may be attempted in the neighbourhood of the umbilieus, first bending the body forward, and relaxing the abdominal muscles-the ends of the fingers being employed alone, or they may be aided by a suitable compressor; in this way the aorta may be compressed against the lumbar vertebrae; and it may be added, in cases of atterine homorrhage, this plan appears on some occasions to have been attended with considerable success; but in hæmorrhage occurring after labour, the womb itself may be compressed through the abdominal pareties, and the bleeding appears occasionally to be in this way arrested. In a case which came under my observation some few years ago, serious hemorrhage took place from the internal manmary artery into the eavity of the pleura. The sufferer, a young man, had been struck on the chest by a fellow-workmen with a chisel; the cartilage of the third rib was divided by the blow, the artery behind it cut across, and the cavity of the plenra opened. Such cases rarely oceur; but should we meet with a similar one, and have reason to think that dangerous hæmorrhage was going on, it appears to me possible to stop it; but how this could best be done is the question: supposing, then, that the application of cold produced no effect, could we introduce a pair of strong, enryed, and good biting forceps through the wound, and so lacerate the divided ends of artery, and tinishing each portion with a little torsion, in this way stop the bleeding? or could we not employ an instrument, shaped like a double key, or with ward: on both sides; to use a homely comparison, resembling the little instrument with which cooks raise the kitchen grate; for supposing the wound to be large, as it was in the case alluded to, such an instrument even covered with a little lint, might be introduced into the pleural cavity, by way of the wound, turned, and then withdrawn, until the divided vessel underwent the requisite compresson? The ligature en masse might be applied above and below the wound, dividing the integument in the direction of the artery, perforating with a slarp probe the pleura (previously injured by the wound), inside the artery, and through the aperture carrying the aneurism needle armed with its thread, which should next be made to bulge out the intercostal muscle outside the artery, where the point of the probe might open a way for it outwards, and the artery and parts connected could thus be fied and compressed en masse; this mode of proceeding being resorted to because of the want of that space between the ribs, which would be sufficient to allow us to find the artery, and to isolate it in the ordinary way. The dorsal artery of the penis may be easily

conquessed by seizing the root of the peuis hetween the fore finger and thumb. When pressure cannot be applied at a lower point, the external iliac may be compressed against the brim of the pelvis through the abdominal parietes, the force being applied obliquely outwards. The femoral arrery is easily and often compressed, as before alluded to against the pubes, the pressure to be exerted obliquely so as to close the calibre of the vessel upon the ileo-pectineal em nence; this may he done with the fing rs with or without the aid of a pressing instrument, with the compressor of Dupuytren, or even with the tourniquet. The vessel may also be easily compressed against the feaur at the upper part of the middle third of the thigh, the direction of the force should here be backward and ontwards; the populiteal artery may be compressed behind the knee joint, with or without the tourniquet; the latter, however, had better be used on account of the great quantity of adipose tissue in the neighbourhood of the vessel; instead of compressing the arteries below the knee-joint, it is usual to command their circulation by compression of the femoral.

So much for the means of preventing kemorrhage applied before the operation,—we now proceed to offer some remarks on the means of saving blood during the operation.

During the removal of large tumours for example, arteries of considerable size are sometimes divided, sending forth a stream of blood, which, if continued beyond a very short time, might endancer the life of the patient. Such a case I met with about ten days ago; where, in removing a tumour weighing some pounds, from the back of the shoulder and side of the neck, large arteries entering the centre of it were cut across; with the aid, however, of prompt and adroit assistant, the hemorrhage from them was readily stopt; an assistant placing the end of his linger upon a divided and bleeding vessel, which he commands for a moment with the left hand, until it is seized with the forceps held in the right, and has a ligature applied to it. In some operations where blood occas in considerable quantity from the cut surface, as, for instance, on the removal of tumours, &c., but where there is no homorrhage, per saltem, which is visible from distinct arterial branches, pressure exerted around the wound will sometimes suffice to arrest the bleeding. In such operations as those at the hip and shoulder joints, the axillary or femoral artery may be seized by an assistant during the operation before the knife of the surgeon arrives at it, who may compress the artery and raise the dap in which it is situated out of the way of the surgeon at the same time. In the operation for hare-lip, on children of delicate contribution, the instrument for holding and at the same time compressing each for holding and at the same time can, see section of the lip, made by Mr. Weiss, will prevent any loss of blood worthy of mention; if this instrument be not employed, each portion of the hp may be so held between the tinger and thumb, as nearly to answer the same purpose.

Tying arteries previous to operation, to prevent bemorrhage during its performance, is a practice celdom had recourse to, although it is burely possible that such a thing might be desirable. It life were menaced by pressure on the bryns, &c., from enlargement and disease of the thyroid body; but few surgeons would now-a-days attempt the re-moval of the offending mass. Such an attempt has, however, appeared warrantable to skilful and prudent argoaus, Konx and others, "On one occasion," says Professor Verencen, "in a case where the affection (of the thyroid) produced more than usual annoyance, I witnessed an attempt to remove a portion of this gland, but the operator was specifity obliged to desist, in consequence of the profuse hamorrhage; a needle was thru a across the swelling (which was chiefly in the middle or isthmus), and a stout double thread was fied tightly round the most prominent part, by which the blood was restrained; a slough followed, and the patient was relieved of a troublesome, tickling cough, which had resisted all other means of cure. Rous, after expending more than an hour in removing a portion of this gland about the size of an orange, and applying forty-seven ligatures, lost his patient titry-six hour-afterwords. It appears to me somewhat doubtful.

whether we could not remove a portion of the thyrold body without the great danger that is generally apprehended-by combining the previous ligature of some of its sources of arterial supply with ligature en masse practised upon it at the time of the operation; to these considerations, however, we will afterwards revert. During an operation, the ligature of an artery already exposed before its section with the knife, is occasionally neressary, - such a precantion I have known to be required with regard to the profunda femoris, in removing a tumour from the thigh. Homorrhage from veins is seldom alarming during the performance of operations; it may be caused by the pressure of the tourniquet, or it may be caused by the only partial pressure of the arterial system of the limb where the tourniquet is not employed, or it may be caused by a want of free circulation through the lungs, ari ing from violent efforts sometimes made by the patient during operations; where the cause is on the spot, as in either of the former instances, its removal is easy; where it is pulmonary, as in the latter, the patient should be directed to draw in his breath three or four times very freely , for this enlivens the pulmonary circulation, and occasionally puts a stop at ouce to that which appeared an immanageable and formidable bleeding. During some operations the employment of the little self-closing forceps, significantly called Mr. Liston's 'hull-does, to hold the arteries until they can be tied, will be found an useful adjunct to other means; these appear to be more especially applicable during removal of the breast, or in operations of a similar nature.

ON THE MINUTE STRUCTURE OF THE BRAIN. IN THE CHIMPANZEE AND IN THE HUMAN IDIOT,

Compared with that of the partie to Brown (Main), with some Reflections on the Central Lauction . By Jawa's Macanetters, M.D.

Maxy years aco I discovered, with only a common pocket lens, a reticulation of fine white fibres, immediately under the surface of the cerebram, in birds. This first led me to believe that the medullary fibres, as they are called, extended farther, and were more subdivided than had been hitherto supposed. I have since been able to demonstrate to medical students, and to several teachers of anatomy, the existence of those lilaments in every part of the brain, by simply moistening the substance of the ocean, during the di-section, with a solution of alum in water, which has the effect of slightly coagulating, and rendering the final fila-ments visible, which, in their natural condition, are transparent. By this means, I have shown that the filaments (which I prefer to call sentient, instead of white or nodullary) everywhere assumed a plexiform arrangement, and that the most delicate and intricate plexuses were to be found inclosed in the gray or coloured substance of the brain. This fact proves the analogy between the coloured substances of the brain, and the gauglia of the nervous system, in which there is a close reticulation of nervous fibres. I have long been in the habit of considering the magnitude and form of the entire loain, and of its several parts as being merely subservient to the number, extent, and connexion, of the various plexuses, in which, and especially in those occupying the coloured substances, I believe the sensorial power, of the brain to reside.

A chimpanzee (the pigmy of Tyson) having some menths and died in Dublin, and the dissertion of it having been intrusted to Mr. Wilde, I proposed to him that I should undertake the examination of the animal's brain, in my own manner. Tyson and others had described the bulk, shape, and externel appearance of the different parts of this creature's brain, but the intimate structure had never been examined by any anatomist

I shall now lay before the academy an account of what I observed in the brain of the chimpanzer, and lil ewile in those of two idiots; by which it will appear that the brain in the latter possesses a still lower degree of organization than in the former animal.

Dissection of the Brain in the Chimpanzee (Simia Traglodytes .- Lin.) - The caternal form here so great a resemblance to the human brain, that, excepting the difference in size, the one might be mistaken for the other. The convolutions were as decidedly marked, and the proportions of the cerebellum to the cerebrum were exactly as in man. On the under surface of the brain I observed that the two white pea-shaped bodies, called corpora candicantia, were very indistinct; and they did not appear to be, as in man, the continuation of the anterior crura of the farnic. The pons, which unites the lateral lobes of the cerebellum, was, perhaps, rather flatter than in the human subject, and the fifth pair of nerves entered it, and passed for a little way distinctly, which is so remarkable The pyramids did not decussate to in the sheep. The pyramids did not decussate to any extent; only two superficial hundles of three crossed. The vorpora olivaria did not project distinctly, and the band which surrounds them was not observed. The structure internally of these hodies consisted of white filaments included in grey substance. The branches of the arbor vita were, perhaps, not so deep, but quite as immerous as in us. The white filaments composing the as in watrunk were not so time, nor so strictly interwoven, as in man, and, therefore, they were more easily The corpus finbriatum was of a distinguished. long shape, and appeared to be composed chiefly of grey substance, and wanted the denticulated The part called twens niger, in the crura of edge. the e-rebrum, was a small, greenish-grey mass, of an irregular figure, and less than a pea, instead of the cresentic form, as in man; and it did not mingle with the white fibres of the erns. The pineal gland was large. It was removed in making a cast of the ventricles, and lost; it was not, therefore, ascertained whether it had any caleareous matter in it or not. The parts in the lateral ventricles corresponded very nearly with the same in man. The soft commissure was particularly strong, and held distinct white tilaments. The triva semilimaris was faintly marked. The two anterior of the tuberenta quadrigemina, called nates, were the smaller. The fourth centricle was much prolonged into the lateral lobes of the cerebellum. The grey substance on the thoor of the ventricle was not raised into the appearance of two ganglia, and there were no white strice. The sentient or white filaments formed looser or less complicated plexuses, wherever they were examined, than in man, and I could not discover any of the delicate arborescent filaments in the base of the corporat striata.

Dissection of a Female Hliot, with Estraordinary Brain.—The whole mass of the brain was small, but the front part did not recode. The convolutions were rather small, but sufficiently deep for the size of the brain. The labes of the verebellam were not the one-third of the usual size. The gyri were searcely distinguishable, and the divisions were few and shallow. The arbor citar had but two principal branches, and the subdivisions of these were few. The anterior part of the lobes was supplied by two clusters of membranous glands, filled with red jelly or albuminous third, such as we find substituted for the acceptations fectuses. The corpus fimbriatum was indistinct, wanted the denticulated margin, and the proper structure inferiorly, and was not half the proper size. The pons was exceedingly small, and its internal structure obscure. The pyramids were parallel cylindrical forms, and did not appear to decussate. The corpora olivaria had little preminence, and the coloured substance was deficient. The lorns niger was imperfectly formed, and not of a dark colour. The corpora striata were very small, as also the white filaments contained in them. The pineal gland was rather of a large size, and contained a cluster of round soft hodies, in place of the calcareous granules. In fine, the character of the whole brain was imperfection of intimate structure. The plexuses were not intricate, and the grey substances pale, and not in sufficient quantity. This person had been a patient in the Whitworth Hospital. The account I received of the state of her intelled from the house pupil was, that she was foolish, and that he could never get a rational answer from her. She was extremely ngly, with projecting jaws and teeth, and an idiotic countenance. She was an nnmarried woman, but not a virgin, notwithstanding the great deficiency in her organ of amative

Dissection of the Brain of a Male Idiot .- The cereinum was small, and the anterior lobes especially so. The verelettum projected beyond the posterior lobes of the hemispheres. The convolutions of the cerebrum were small, particularly those of the anterior lobes on the left side,-they were so imperfectly developed, and so closely conneeted to each other, that they had more the appearance of a tuberculated than of a convuluted surface. The offactory were, were small, and very deficient in grey substance; indeed, all the coloured parts of the brain were rather pale. The pyramids could scarcely be distinguished, being extremely small, and confounded in the projection of the corpora olivaria; they did not appear to decussate; the one on the left side was particularly small. The left hemisphere of the brain was smaller than the one on the right side. The tubercula quadrigemina were of an equal size, and a grey colour on their surface. The pineal gland was large, semi-transparent, and contained very little of the gritty matter. On the surface of the left erus of the cerebrum there was a green tinge observed, which, on being cut into, proved to be the locus niger in a disorganised and nearly dissolved state. were no white strice in the fourth ventriele. The plexus of white filaments at the roots of the offactory nerves was very plain on the right side, but very imperfect on the left. The lumin was tolerably firm. The spinul macrow was hard and the cerebellum was soft. The structure, as well as form of the parts in this brain, was imperfect throughout, but most remarkably so on the left side; the want of agreement between the two sides would necessarily impair the functions of the brain.—The first deviations from the perfect brain of man appear to be with respect to the following parts: -The locus niger, the corpus fimbriatum, the white strice in the floor of the fourth ventriele, the decussation of the pyramids, the distinction of the auterior crura of the formix, the corpora olivaria, the degree of intermixture of the senticut or white filaments in the arbor vite, the corpora candicantia, and the existence of calcareous granules in the pineal gland.- It is remarkable that many of these parts are not found in the first stages of feetal life, and some of them not until after birth. The pineal gland, according to Meckel, is not perfect until the seventh year of infancy. The same parts also first decline, and ultimately disappear in animals, according to their scale of organisation; and further, it is chiefly with respect to these parts, that varieties of structure are observed in the brains of different rational human beings. I have found many deviations from the ordinary structure in subjects, without being able to ascertain what peculiarities of character belonged to them when alive; but, in one instance, of a deaf and dumb person, the white strike of the fourth ventricle (with which the auditory nerves communicate) were imperfectly formed, were not subdivided, and did not unite with each other. If, therefore, we can ever arrive at correct notions of the functions of the brain, it must be by careful dissections of the interior parts of the cerebral organ, and by ascertaining the correspondence between the miunte structure, and the endowments and dispositions of the different individuals; taking into account, at the same time, the influence of the varions organs of the body, instead of ascribing to certain parts on the surface of the brain distinct and often opposing faculties, as Gall and Spurzheim have done.—It seems to be particularly absurd to suppose that the corebellum, a part evidently as highly organised, and of as much importance as the cerebrum itself, should be designed to produce merely the sexual instinct. In animals that have the lateral lobes of the cerebellum very small, or who want them altogether, this instinct is stronger than in man. In those instances which are known of the absence of a part, or one lobe, or the whole cerebollum, no want of the venereal appetite existed; and a case is related of a person in whom the sexual desire was so ungovernable, that mechanic restraint became necessary; and it was found, after death, that both lobes of the cerebellum were wanting in this person. In animals that pro- stages of ramollissement.

pagate only at particular seasons of the year, the testicles and ovaries are singularly developed at those periods, and afterwards decline, while at the same time no change takes place in the cerebellum. The abolition of the sexual instinct, by the extirpation of the testes, or of the ovaries, puts it beyoud all doubt that this impulse does not originate in any part of the brain. - It would appear that all instincts depend upon the condition and state of feeling in those organs with the functions of which they are immediately connected; thus, the maternal instinct (at least in mammiferous animals) is in a great measure the result of the tension of the mammary glands. As soon as this is removed, by the absorbents carrying off the milk, quadrupeds lose all care and anxiety about their young. cerebral organ would, perhaps, of all others, he the most unfit for the generation of instincts. The brain is destined to direct or control instinctive feelings, and, therefore, it cannot create them. If a person attempt to command any instinctive impulse to be felt, he will find it as impossible to do so as to rise from his chair, merelyby willing it, without the aid of the muscles,-I have ascertained and demonstrated, by repeated dissections, that all the plexuses of the brain are continuous with each other; that no part of the nervous system is isolated; and consequently the different parts must exercise a mutual influence on each other. I have proved that the spinal nerves, as well as those of the brain, are not inserted in the same way as the roots of plants penetrate the earth, which has been heretofore believed, but that they are united with the parts from which they are supposed to arise, and that the spinal nerves, form a chain of communication with each other, after they enter the spinal matrow. It is in consequence of the integrity of the whole nervous system, that the various sympathies, both natural and morbid, exist between the different organs of the body. If the continuity of the sentient or nervous filaments were to be intercepted at any one place, their functions would be arrested at that point, in the same manner as the division of the nerve destroys sensation and voluntary motion in the parts to which the nerve is sent, -Some anatomists, it is true, have supposed that the various reticulations of the nerves, and the intermixture of the brain, were merely to bring them into contact, and that there was no incorporation of the sentient substances. This opinion is consequent upon another, as ill supported by facts —namely, that there is a subtile or nervous fluid, which carries impressions made on the nerves to the brain, and thus causes sensation; and that the same thid, proceeding from the brain to the muscles, produces voluntary motions. It has never been, however, attempted to explain how this imaginary fluid could become the instrument of sensation or volition, more than the sentient substance itself. For my part, I am satisfied with the knowledge of the undoubted fact, that the peculiar matter which exists in the nerves and the white filaments of the brain, is endowed with the power of feeling—a power perfectly distinct from every other in nature; and I think it is equally obvious that the various modifications of sensorial function we observe are the result, and require for their production the multitude of subdivisions and reunions that take place in the sentient filaments of the brain and nerves, Voluntary motion anpears to me to be the natural consequence of the connection between the central part of the nervous system, and the muscles which move in obedience to the will or desire of the individual - Traus actions of the K yal Irish Academy.

SPINAL LERITATION.—This disease, is supposed by Dr. Stilling, of Cassel, to be dependent on congestion in the capillaries of the spinal chord. He remarks, also, that wherever there is sauguineous congestion there is an exudation of serum through the parietes of this blood-vessels, which softens the surrounding structures; so that in post mortem examinations of persons who have died with the above disease the spinal cord has been found in all

ACCOUNT OF A CASE OF SUCCESSFUL AMPUIATION OF THE THIGH MESMERIC STATE,

Without the Knowledge of the Catient Read to the Poyal Medical and Chirurgical Society of London, on Tuesday, the 22d of Nov., 1842.

By W. TOPHAM, Forg. and W. SQUIRE WARD, Log. M. B.C.S., Tornerly Borce Surgeon to St. Bartholomey's Hospital

TO THE ROYAL MEDICAL AND CHERURGICAL In detailing the circumstances attending the incpartant case I have the honor of communicating to this learned Society, I shall abstain entirely from any prelimenary remarks upon the supposed cause of the effects I have produced. I shall, still, call the state "Mesmerism," because the term involves no principle; it regards the phenomena only, and not the specific cause for them. - Whatever the agent man be, through which the Mesmeriser influences his putient, who there by a medium -some, or the entire portion of which, is already familiar to us, under another designation or by a medium totally new to car esperience, it becames me not new to inquire. - The generality of men, when they hear if some movel phenomena, instead of testing the truth by experiment alone, cudearour to ascertain the cause, by their own powers of reasoning; and belief or disbelief, is made to follow the result. The startling phenomena of Mesmerism have but tou frequently illustrated this remark. To facts, I shall, therefore, confine myself; and to such only as I can persenully couch for.

James Womblell, aged 42, a labouring man, of a calm and quiet temperament, had suffered for a period of about five years, from a painful affection of the left knee. On the 21st day of June last, he was admitted into the District Hospital at Wellow near Ollerton, Notts.; no longer able to work, and suffering much pain. It was soon found that amputation of the leg, above the knee-joint, was invitable; and, it was eventually proposed, that it should be performed, if possible, during meaneric

I saw Wombell, for the first time, on the 9th of September. He was sitting upright, upon a bed in the hospital; the only position which he could bear. He complained of great pain, from his knee, and of much excitability and loss of strength from his constant restlessness and deprivation of sleep; for he had not, during the three previous weeks, slept more than two hours in seventy.

In the first attempt to mesmerise him, which occupied me thirty-five minutes, the only effect produced was a closing of the cyclids, with that quivering appearance, peculiar to mesmeric sleep ; and, though awake and speaking, he could not raise them, until after the lapse of a minute and a

My attempt, the next day, was more successful, and in twenty minutes he was asleep. I continued to mesmerise him every day, except the 18th, until the 24th of September: his susceptibility gradually increasing, so that, on the 23rd, the sleep was produced in four minutes and a half. The duration of this sleep varied, continuing, generally, for half an hour; sometimes, for an hour; and, occasionally, for an hour and a half. But, with two exceptions (attempts to converse with him), I invariably found him awakened, though without being startled, by the violent pain from his knee; which suddenly recurred at uncertain

The third time I saw him, he was suffering great agony, and distressed even to tears. I commenced by making passes, longitudinally, over the diseased knee : in five minutes, he felt comparatively easy; and, on proceeding further to mesmerise him, he was sleeping like an infant. Not only his arms were then violently pinched, but, also the diseased leg itself; without his exhibiting any sensation : yet this limb was so sensitive to pain, in his natural state, he could not bear even the lightest covering to rest upon it. That night. he slept seven hours without interruption.

After constantly mesmerising him for ten or twelve days, a great change was observed in his

^{*} From the pamphlet published by Baillière.

The line of health returned, he

his, positio,
On the 12nd of September he was equival of the necessity of an early amountation. The com-munication seemed almost vicespected, and affected him considerably. It this day, tried the experi-ment of mesmerising him against his will; proeceding by connet wide the hands, charging him. particularly, to exert his mind to prevent my affecting lem. During the process, he occasionally chancel at these near him; moving his eyes as he telt inclined, and, in twelve minutes and a half, proved into mermeric sleep. The two or three previous days, it had been effected in six minute: He informed me, subsequently, he had repeatedly called to mind the intelligence just received, and the torture which he must endure: but he soon Fund the influence irresistible, and presently lost all consciousness. The anticipated loss of his limb, however, that might, destroyed his material sleep. Next day, though found still freiting, resiless, and in consequent pairs he was yet, by my touch, a deep in four minutes and a half.

I was then absent, and did set see Wombell

until the 25th. He was looking healthy and cheerful; his natural sleep was sound and regular; and his pain southed and diminished. I was now convinced that the operation might be safely attempted during mesmeric sleep, and, with the man's firm consent, it was fixed for the Saturday

On the morning of Saturday, the 1st of October, 4 again mesmerised Wombell, having done so the two previous days. This was done in the presence of Mr. William Squire Ward, of Wellow (the operator), and two other surgeons; in order that the previous mesmerism might tend, as I believed it would, to under his sleep deeper, when again mesmerised for the operation; and also to satisfy them of the s.a. in which he would be, when that time arrived.

He slept on hour; and was roused by an att mpt to converse with him. I then showed them my power of affecting any cut of his Kubs, even when he was quite awake. At my request, he extended his arms alternately. By making two of three passes over each, wi hout any contact, I so transfixed them, that, from the shoulders to the tips of the fingers, they became as rigid and anyielding a bars of iron, not to be unbent except by mechanical force powerful enough to minute the limbs, and yet instantly relaxing throughout, and dropping to his side, from the effect of my breath alone. His right leg was subjected in the same degree; and relief from imracdiate pain was frequently afforded, by making similar passes over the discussed one. Though the qualidity to pain was diminished, in the Units thus affected, whilst awake, it was only dering mesmeric sloop I found it totally gone.

At half-past one o'clock, we proceeded to Wombell' room, to make the recessivy arrangements. From the safering indicted by the slightest move-The in the safe ring in the real by the singlifest move-ment, it was found impossible, without needless forture, to please him upon a table. The low bed, can which be then key, we therefore lifted upon a temporary platform. Ten minute after being mesmerised, I was drawn, by no are of the bed-cheffies beneath him, towards the end of the bed-The movement, however, excited that pain which had so often aroused him before, and now it did gain. There was one thing quite exeruciating in the suffering which the state of the kince produced: for, I had seen him, whilst in me mane do p, pricked to some little depth, in other parts of the desceed limb, without being digueled or concion of it. To proclude the necessity of any for her movement, his big was row placed in the mess convenient position which he could been. Shortly afterward, he declared that the pain land to so did and I region in emerged blink in four mi-Ward that he right commone the operation for a bound of the breight commone the operation for a breight we tagers of each hand gently in contact with Weinbell about the edge of the breight was tagers. lept there, striking her to exper the sleep. Mr. Wird, after an exampst body at the man, slowly plunged his lenife into the centre of the outer side

of the thigh, directly to the hone; and then made became cheerful; felt much tronger, was easier, a char incision, round the bone, to the opposite both in mind and body; slept well, and recovered point, on the inside of the thigh. The stillness, at this moment was something awful; the calm respiration of the sleeping man alone was heard; for all other seemed suspended. In making the second incision, the position of the leg was found more becomenicut than it had appeared to be; and the operator could not proceed with his former facility. Soon after the second incision, a moaning was heard from the patient, which continned, at intervals, until the conclusion. It gave me the idea of a troubled dream; for his sleep continued as profound as ever. The placid look of his countenance never changed for an instant; his whole Zame rested, a controuled, in perfect stillness and repose; not a muscle or nerve was To the end of the operation, inseem to twitch. chall ig the sawing of the bone, seeming the arteries, and applying the bandages,-occupying a period of upwards of twenty minutes,-he lay like a statue. Soon after the limb was removed, his pulse becoming low, from the loss of blood, some brandy and water was poured into his throat; which he swallowed unconsciously. As the last bandage was applied, I pointed out to one of the surgeons and another gentleman present, that peculiar quivering of the closed cyclids, already alluded to. Finally, when all was completed, and Wombell was about to be removed, his pulse being still found very low, some sal-volatile and water was administered to him; it proved too strong and pungent, and he spadually and calmly awoke.

At first, he uttered no exclamation; and, for some moments, seemed lost and bewildered; but after looking round, he exclaimed, "I bless the Lord to find it's all over!" He was then removed to another room; and, fellowing immediately, I asked him in the presence of those assembled, to describe all he felt or knew, after he was mesuncrised. His reply was, "I never been coupling γ_{eff} ; σ discrete felt any varient $\sigma t'$; I never felt as if I bend a bind of connecting. I asked him if this if I is red a kind of convexing. It asked him if this were painful? He replied, "No pain $\omega' \gamma'''$! I was bed a γ_{ij} : and knew nothing, till I was awarteed by that streng steff" (the sal volatile). The "erenching," no doubt, was the sawing his own thigh home. He was left, casy and comfortable; and still found so, at v' is delock that night; about which hour, I again mesmerised him (in a minute and three quarters), and he slept an hour and a half. I may further add, that on the Monday following, the first dressing of his wound was in mesmeric deep. Of this dressing, usually accompanied by much soreness and smarting, he felt nothing; dept long after it was completed; was ignorant of Mr. Word's intention; and, after awakening, remained anconscious of its having been done.

Mr. W. S. Ward's own valuable statement, in accordance with his personal observation and care. prior and subsequent to the operation, he has kindly permitted to be appended to my own; and thus, to render complete the narrative of this case; which I leave, without a syllable of comment.

W. Tornan.

SLCOND STATEMENT.

Mr. President a. 1 Gentlemen:

Being a party concerned in offering the present paper, for reading before your learned Society, I teel that, as a member of your own profession, and the operator adhided to in the preceding pages. s me observations are due bem me, in addition to the able ady brought before you by my friend,

correme time so taider which the operation was personaled are of so novel a nature, that they may fatford much ground for discussion, if the menibers of the profession, to whom I have the honour of address to the colservation, will calmly de-liber to type from and, without prejudice, ex-tuin the object, which (should further experience suffices the sufficipations that acy rea enably be enter amed, from the happy results of the powent provine at i, and whose study it has for ones been, to minimor the peignant sufferings that "alosh is habits."

The care, to which the attention of the Society has been already called, was one of very extensive ulceration of the cartilages of the knee-joint, of for and a half years standing, the consequence of neglected inflammation of the synovial membrane, produced by injury, which was freated by a quack, 1 the first istance, but o'd not come under my own notice until about three years before his admission into the District Hospital, at Wellow: when, supposing alcoration to have commenced in the ear, alages, I ordered absolute rest and the usual treatment, which was only adhered to for ten days; when, in spite of every remonstrance on my part, he returned to his ordinary employment (an agricultural labourer) in his still crippled

He then fell into the hand of other practitioners, whose discip^Ere was less rigid, and whose prognosis was more sanguine than mine, quently met him, and occasionally warned him of the eventual loss of his 5mb, if he persisted in using it. 135 last fair prospect was a promised or reby cupping; but this having produced no rebet, he applied for adulysion into the hospital. At this time the disease had far advanced; the sughtest motion of the joint was attended by the most exeruciating agony; his nights were at nost wholly sleepless, in consequence of the painful startings of the links; his pulse weak and rapid; his face constantly marked with a heetic flush; his tongue for l, and appetite gone. He was now confined to his hed, but could not bear a horizontal position. The joint was supported by a light splint; por 'tiess, fementations, &c., were applied; aftention paid to his general health; opiates, quinine, wine, &c., prescribed to get him into a fit state for the operation (which I deemed inevitable), without any apparent benefit: but, on hearing that Mr. Tophon was coming into the neighbourhood, I determined to request him to try the effects of Mesmerism upon him; with a view, not only of tranquil'ising the system, prior to the operation, but, if possible, to procure such a degree of in-sensible ty to pain, as to render the man uncon-scious of the operation itself; having long desired to see THIS accomplished as the sammum bonum of Mesmeris.n.

I was, however, obliged to leave bome, from indisposition, at this period; but daily received reports of the progress made upon my patient; and, on my return, on the 27th of September, -about three weeks after the commencement of the Mesmerism,- I was as much astonished as I was delighted, to observe the improved condition of the man. He had, now, much more the line of health; his nights were more quiet and tranquil; his appetite had returned; and, in fact, such was his state, that had I not known the previous history of the case, much doubt must have arisen, in my mind, as to the propriety of, immediately, amputating the limb. It is true, there was, still, the prin, on the slightest movement of the joint; and, still, some of the same painful startings at night; but he no longer appeared to be suffering in his general health, which, on the contrary, was greatly improved, nevertheless, I felt assured, notwithstanding all this in his favour. that there was too much disease to admit of a final

As I had quite determined upon not attempting to remove the Umb, while the patient was imder mesmeric influence, unless I was convinced of its safety, and had opportunities of seeing him in that state; and, moreover, not without the man's own full concurrence; on the 29th, I requested Mr. Topham to mesmer'se him; when I was delighted to find his susceptibility so great. When askep (if I may use the term), his breathing was unaltered, his pulse tranquil, and about 80; his waking was slow and gradual, and without the least start; and, I found, he was insensible to the prick of a

Under such eigenmstances, I saw no grounds for fear or hesitation; and having obtained the patient's consent, or, rather, at his own urgent request. I fixed the following Saturday, 1st of Oct.,

for the performance of the operation.

The patient (as has been already stated) was lifted, with his bed, upon a platform, and, although he was considerably excited, by hearing the cries of another patient, upon whom I had been per-forming a tedious and painful operation in an ad-

joining room, he was soon put into mesmeric sleep. but, as I wished him to be placed in the usual position, with the limbs extended over the end of the bed, an attempt was made to draw him down with the bed-clothes; but this occasioned so much pain, as to awake him. I was, now, somwhat embarrassed; as his position on the bed, with his extremity lying in close contact with it, was so very unfavorable to the operator; but having proceeded thus far, I was unwilling to mar the first attempt at lessening the horror and pain of a capital operation; although I must confess, I was by no means sanguine of success. The patient was again put to sleep; previously to which, a surgeon present raised the limb about two inches from the mattress, by resting the heel upon his shoulder and supporting the joint with his hand; promising also, if the man should awake, instantly to draw him down, so as to allow the leg to extend beyond the edge of the bed.

In a few minutes, Mr. Topham said he was quite ready; when, having adjusted the tourniquet (the very unfavorable position of the patient preeluding the possibility of otherwise compressing the artery), I proceeded to perform the operation, as has been described. Having made the anterior flap, without the slightest expression of consciousness on the part of the patient, I was under the necessity of completing the posterior one, in three stages. First, by dividing a portion of the flap on the inside; then a similar portion on the outside. This proceeding (which of course was far more tedions and painful than the ordinary one) was vendered necessary, to enable me to pass the knife through, under the bone, and thus complete the whole; as I could not sufficiently depress the handle to do so, without the two lateral cuts.

Beyond what has been already so well described by Mr. Topham, I need only add, that the extreme quivering or rayid action of the divided muscular fibres was less than usual; nor was there so much contraction of the muscles themselves: I must also notice, that, two or three times I touched the divided end of the scirtic nerve, without any increase of the low mouning, described by Mr. Topham; and which, to all present, gave the impression of a disinrhed dream

The patient is doing remarkably well; and sat up on Sunday last, to cut his dinner,-just three weeks from the operation; and he has not had a single bad symptom; none, even of the neryour excitement, so frequently observed in patients who have undergone painful operations, and who have suffered much previous anxiety, in making up their minds.

On dissection of the joint, the appearances fully verified my diagnosis. The cartilages of the tibia, femur, and patella, had been entirely absorbed, except a much-thirmed layer, partly covering the patella. There was deep, carious ulceration of the exposed ends of the bones; and especially on the inner condyle of the femur; which had wholly lost its rounded shape. Some coagulated lymph was offused upon the surface of the synovial membrane, in several places; and the joint contained a certain quantity of dark-colored pus.

It is not my intention to trespass further upon the valuable time of the Society, by presuming to stand forward as the champion of Mesmerism generally: a task to which I feel myself to be totally incompetent. For a long time, I had been a sceptic; and, long, a "cui bono" querist; when, through the kindness of Dr. Elliotson, a few months ago, I was allowed an opportunity of examining for myself, the power of that agent in producing coma; in rendering rigid the muscles; and in causing, to a certain extent, insensibility to pain. I saw, and was convinced, that my opposition was ill-founded; and the result of this conviction has been the present successful and flattering trial; which is a sufficient answer to those who are incredulous, only, as to any benefit to be derived from it: for there can be very few, now, even of the most bigoted objectors, who will venture to deny its powers in producing coma. This, too, in the calmest temperament; not merely according to the frequent supposition, in the highly nervous young female, but, even to utter insensibility in an agricultural labourer, aged 42; to which class, I need searcely add, nervous excitement, in

the common acceptation of the term, is almost an cutire stranger.

Be it observed, also, so complete was the sa e-ptibility, that come was quickly produced, under the must unfavorable circumstances; as, when in extreme pain from his disease; when using his own volition, to the utmost, to counteract it; and when on the table, with the fear of the operation before his eyes.

Although the single experiment, we have detailed to the Society, is scarcely sufficient to set the question completely at rest; is it not of a sufficiently encouraging nature, to demand an immediate repetition, by those of my professional brethren, to whom the splendid institutions of the metropolis offer such frequent opportunities?

W. SQUIRL WARD.

CASES OF PERITONEAL SECTION

HOR THE

EXTINEATION OF DISEASED GYARIA BY THE LARGE INCISION FROM STERNUM TO PUBES, SUCCESSFULLA TREATED, WITH OTHER CASES OF EXTIRPATION OF ANOMALOUS TUMOURS, &c. &c.

or CHARLES CLAY, Member of the Royal College of Physicians, London of the College of Satzeons, Lahnburgh, and Lecture, on Michael Jun produce &c. Precadilly, Manchester

(t one tuded from page 112.1

CASE THE FIFTH

The remarkable features presented by this case at first, and more so when the tapping had been effected, rendered the prospect of recovery all but hopeless. The extent and unmber of adhesions were such, that it appeared impossible they should be overcome, without effecting irreparable injury; and yet this case recovered more rapidly than any of the previous, and contrary to the expectations of every one present at the operation.

MRS. HARDY.

Thave reported the following case that it might not be said I only made public the fortunate cases. It is analogous, as far as the peritoneal section is concerned, but entirely different as to the why such an operation was attempted. Of the cases previously related, those of ovarian disease were decidedly and remarkably successful, neither age, extent of adh sions, size of tumour, length of disease, nor quartity of ascitic deposit offered any obstacles to their recovery. The case of Mrs. Dillon, I am inclined to think, (and regret I had not an opportunity of confirming it by a post mortem examination,) was not an ovarian disease, but a tumour of another and widely different character, one that would very soon have destroyed the patient. Had not indulgences been resorted to of a character incompatible with recovery: there is no doubt on my mind that she would have lived much longer after the operation, still it was sufficient to prove how little danger arose from the incision of the peritoneum, that being almost entirely healed before death,

The last case was truly an unfortunate one still, it in no degree detracts from the operation for encysted ovarian tumours. The seat of the disease and the disease itself offered less prospect of success, whilst the latterly rapid growth and frequent severe accompanying pains of the tumour shewed that its malignant character would soon have been developed to the full, and terminated fatally, all these were fully confirmed by the post mortem examina-Mis Hardy at. 45, never had any tion. children, appeared about the size of a female in the eighth month of utero-gestation. The tumour had a lobulated character, of a hard unvielding feel, not the slightest deposition of fluid could be detected either in the abdominal cavity or within the walls of the tumour; it appeared not to have the slightest peritoneal

Simple diet continued, with the addition of a little weak mutton broth once a day.	Motions	Urine	Sleep	Pain	General Sur-	Tongue	Pulse	Temperature.	FROM THE TER- MINATION OF THE TRIRD DAY AFTER OPERATION TO THE END OF THE CASE.
Ligature not yet away—wound requiring very little dressing—or- dered two tea spoonsful of ol, ricini.	None.	Frequent 5xx.	Allmight	Noire.	Warm & moist.	(Tean.	so soft.	63	4th day after operation—Nov. 12.
Of ricini operated gently; two mo- tions—began to feel hungry and wanted something tasty, but not allowed.	Two.	Often Žavii.	Most of the night	None.	Warm & moist.	Clean.	76 soft.	ವಿ	5th day—Nov. 13.
Wound requiring only one strip of plaister over the ligature—ta- pieca pudding, with former diet.	One.	Otton 5xx.	Alluight	None.	Warm & moist.	Clean,	75 soft.	65	6th-Nov. 14,
Continues to do well—diet as before, with the addition of a little weak mutton broth.	One.	Often 5xxiv.	All night.	None.	Warm & moist.	Clean.	75 soft.	63	7th—Nov. 15.
Has set up most of the day—feels very well—takes broth freely.	One.	Otten 5 vvii.	Most of the night.	None.	Warm & moist.	Clean.	75 soft.	63	8th-Nov. 16.
Continues very well—sat up all day.	Two.	žxviv.	Slept well.	None,	Warm & moist.	Chan.	76 soft.	63	9th—Nov. 17.
Continues wellrequires no dressing, except over the ligature.	One.	žxx.	Slept well.	None.	Warm & moist.	Clean.	75 wift.	64	10th-Nov. 18.
No restriction as to food—walks about the house—feels quite well,	Tw	Frequent	Slept well.	Non.	Natural	Clean.	5	, 64	11th—Nov. 19.
Only saw her occasionally after this—considered further close at- tendance unnecessary.	One.	Frequent Frequent	Slept well.	None.	Naturd.	Natural.	soft		12th—Nov. 20.

attachments and could easily be moved under the integuments, lastly it occupied more of the right than the left side. Having been made fully alive to the danger of extirpation, still she was urgently desirons of having it removed and in the hope that its attachments would not be serious. The operation was commenced on the morning of the 17th, in the presence of Dr. Radford, Mr. Walker, Mr. W. C. Vandrey, Mr. G. Southam, surgeons, and Mr. Winterbottom. The incision to the extent of thirteen inches was quickly made, and as had been anticipated no peritoneal adhesions existed; the tumour however presented very different appearances to encysted ovarian tumours, it was of a bright pink colour, hard as a piece of boiled liver, and composed of numerous small lobes with acute edges similar to the lobes of the liver, the mass appeared upwards of 12lb, in weight. 1 soon discovered to my mortification that its attachment was of a very broad character at its base and highly vascular, no less than the full length of both fallopian tubes and the greater part of the uterus itself formed a part of the tumour. I had now gone too far to recede, no alternative presented but extirpation of the whole mass; at this period of the operation my patient began to faint, (and it should here be stated that for some time past she had been subject to syncope of an alarming character,) ligatures were placed round the fallopian connections as well as the central nterine attachment, still considerable hemorrhage occurred when the parts were separated. The mass included in the ligature was too great to have any decided effect on the vessels supplying the diseased mass, which were very numerous, and from the repeated attacks of syncope following each other rapidly during our endeavours to seeme them, it was evident the shock of the operation would be too great: the vessels were seemed, the integuments brought together and the patient placed in bed, after which every means were put in force to rally her but in vain, attacks of syncope contanually occurred and she finally sank about an hour and a half after the removal of the tumour. Some time after, a post mortem examination was instituted, when it was found that the part severed was so charged with vessels. that the section presented mouths of vessels almost as numerous as the cavities of a piece of sponge and some of them very large; there was but a small portion of the neck of the nterus and the os uteri that was not amalgamated with the substance of the tumour. The tumour weighed 13ths, was entirely solid and highly vascular, and its character evidently such as to promise an early and speedy termination of life, even had it remained, if any injury or excitement had occurred. No one could have regretted the unfortunate termination of this case more than myself; my medical friends felt it equally and though it crumot be quoted as an argument against the operation for overian tumours, yet it offered an excellent caution against attempting the removal of tumours of a more solid formation, which I presume are always connected with viscera of increscrious importance than the ovaria. It may also be observed that persons prone to syncope and that of an alarming character, are perhaps not fitted to undergo an operation of such magnitude: in such, the mere shock of the operation must often be attended with a fatal issue.

Before I conclude these papers, I may mention two other eases of ovarian disease, that furnish a hint or two worthy of consideration.

MRS. ORMROD.

Mrs. Ormrod, Chadwick Street, Manchester,

was 62 years of age, enormously distended in the abdomen by fluid. I proposed paracentesis abdominis, and performed it in two places without being able to bring away more than two or three pounds of a thick glairy fluid, of a brownish tinge. I diagnosed this to be a case of encysted ovarian disease, and as my patient was too old to promise a favourable result by operation, and even supposing such a means had been proposed, she was of too timid a character to undertake it, I therefore advised the steady perseverance of the following for-

B. Tinet. Opii 5iss. Subcarbon: Potassa dj. Infusi, Gentianæ Sviij, M. ki, ter in die

R. Linim: Saponis Sii. Tinct. Iodini zij. Appl. Ad. Reg. Abdom. frequent.

The effect of the subcarbonate of potass in this case litherto has been most remarkable, the circumference of abdomen being reduced thirteen inches, the ovarian tumour being now very distinct in the left iliac region. I do not, however, expect this effect will be continuous, nevertheless it offers a means of prolonging life with greater comfort in an aged person, or where the operation is otherwise not advisable.

MRS. WARD. Mrs. Ward, Bell Street, Manchester, et. 62, applied to me on the 13th November. The abdomen was enormously enlarged, fluctuation very distinct. 1 performed paracentesis abdominis, when 33 lbs. avoirdupois were discharged, thick, glutinous, and of a brownish colour, coagulable on the application of heat. After which I felt the ovacian sac with two large solid masses, situate in the right iliac region and one over the pubis, the appearance of the whole very much like the case of Mrs. Edge. As the age of Mrs Ward was more than I approved of for operation, and her constitution otherwise bad, I did not advise it, but substituted the potass mixt.; as in Mrs. Ormrod's ease, at present it appears to check the refilling of the cyst. The reason I introduce this case is, to shew that ovarian diseases are perhaps more common than the profession has hitherto supposed, and I am inclined to believe very many of those obstincte cases of dropsy where there is frequent recourse to tapping, to be connected with ovarian disease; at least it would be well to pay a little more attention to the state of the ovaria after tapping, for if they are diseased, all the tapping in the world will never cure the disease.

CONCLUDING REMARKS.

After much reflection. I have no hesitation in stating my conviction that the extirpation of ovarian encysted tumours may be performed with comparative safety. And if the age he not too advanced, I believe the cases I have here given will fully prove that neither extent of adhesions, size of tumour, ascitic deposit, worn down constitution, nor peritoneal inflammation, should prevent extirpation being performed. The specess of the operation is more than equal when compared with other capital operations in surgery. I would not advise, however, the peritoneal section so confidently in other tumours of the abdomen; still it is at all times a justifiable course where the patient carnestly requires it, and no other hope of prolongation of life presents itself. The exposure of the abdominal viscera, if the room be moderately heated, is attended with no bad consequences, nor yet a moderate loss of blood during the operation. The principal pain is confined to the first incision through the skin, and to the stretching of the pedicle whilst it is the had through Mr. Alexander Black, & Wellingconsulted me in September last (1812.) She secured and severed. If the ligature is not ton-street, North-

drawn very tight, it will be much longer in coming away. I find it better not to let the interrupted sutures remain too long. I take every other out the third day, and the 1981 the day after, or at longest the 5th day. Thus much unnecessary irritation is avoided. Pain, after operation, is always controulable by a grain of mur, morphine. Some days after the pressure is removed from the abdominal viscera, there appears to be a tendency to diarrheea, which, if not closely watched, and timely checked, may soon undo all the good that has been accomplished. Mere debility, arising from the ovariou discuse only, before the operation, is more favorable than otherwise, and affords a good safeguard against peritoneal inflammation. I cannot conclude my remarks without correcting the statistical account of these operations as given in the preceding remarks rendered necessary by additional opera-

Large incision, 3rd., by Dr. Clay. Successful.—1 by Mr. Walne, do.—Total, 12 successful: | fatal.-Jeffreason, small incision.-I by Dr. Stilling Cassel: fatal.—Total, 5 successful; 5 fatal

The above operations were for diseased ovaria only, in addition to which may be recorded two cases of anomalous and nterine tumours, of a very malignant character, which were attempted by the large peritoneal incision by myself, both of which proved fatal, the first from causes already mentioned, the last from the shock of the operation. I now leave the matter to the candid consideration of the profession, hoping those prejudiced against the operation, will examine fairly before they condemn. To those of more liberal feelings, (many of them men of the highest standing in the profession, who have kindly and considerately forwarded me their congratulations and approval of my humble attempts to improve pelvic and abdominal surgery) I return my best, my warmest thanks, as well as to the editor of the " Medical Times," for his courtesy in allowing me to occupy so many pages of his valuable iournal.

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THE COURT of EXAMINERS, having found that concern statements have later been published it specific the mode in which gentlemen in gazed in the Practice of Surgery, a botton the Diploma of the College; and that other Conductors is the Diploma have experienced difficulty and inconvenience from attention for the Regulation, by which the respect study, his been om time to time augmented, of from matality to comply with those conductors.

Resulted — That gentlemen who were practising Surgery print to 1833, he admitted to E. minution on producing proofs of Such Ana-romical and Surgical Education as may be deemed sufficiently by the Court of Examiners.

aniners.
Candidates be admitted to Examination upon the pro-That other Cambiatres be admitted to Examination upon me pos-ibilities of the several certification for required by the Regulations of Increase when they began their professional Education by apprendice dup for the attendance on Lettrees, or Haydraf Practice 1DMCND BELLOUR, Secretary,

November 18th, 1812.

NOTICE.

WITH THIS NUMBER IS PUBLISHED A SUPPLEMENT. BEING AN ALMA-NAC FOR 1843, CONTAINING, WITH THE USUAL MATTER OF A MEDICAL AL-MANAC, AN ABSTRACT OF THE PHAR-MACOPEIA, A FULL ACCOUNT OF ALL THE MICROSCOPIC DISCOVERIES IN ANATOMY AND PHYSIOLOGY — THE TESTS AND ANTIDOTES OF POISONS, &c. PRICE 4d., STAMPED, 5d.

THE MEDICAL TIMES.

SATURDAY, DECEMBER 3, 1842.

Omnia Romæ Cum pretio. Quid das nt Cossum aliquando salutes?

In every battle of men, says a German writer, there has been also a battle of principles-and, reasoning in his spirit on our struggles for hospital appointments, we are disposed to see in them, a conflict beyond that of the individual candidates - a conflict which, rising above the petty strifes of personal ambition and involving questions of social right, still more than private interests, presents to the impartial journalist (the earthly providence in these matters) the dignus vindice nodus, the justifying reason for interposition.

Impressed with the deep conviction that if ever there be an occasion in which merit alone should sway preference and support, it should be surely that in which a governing body has the appointment of an officer on whose scientific abilities, and conscientions attention to his duties, depend the most vital interests of a numerous portion of our suffering fellow-countrymen-it is with no little concern that we have to direct the public attention to the approaching election for the physicianship of Westminster Hospital, about to be made vacant by the retirement of Dr. Burne. It appears that there are already three candidates in the field. Dr. Kingston, a young person, hitherto unknown to the public - Dr. but we have so often enlarged on the Basham, a gentlemen against whom the same charge cannot certainly be laid—and Dr. Robert Hunter, the eminent lecturer, dilated on the dishonour to the profession whose name and fame were, last year, so adroitly enlisted by the Governors of the Hospital, in support of the fortunes of their then declining School. We will not attempt to disquise an honest personal preference in favour of the last-named gentlemanfounded on the reports which have reached us of his serupulous attention to his duties apart from any prepossession of this kind, umphs. Human life, it cannot be too well considered. To a physician in his teens,

it is impossible for any one who gives a moment's thought to the respective standings of the three candidates in the scientific world, to hesitate for a single instant about deciding who brings the highest-in truth, the only-real title to the appointment, and whose character promises to throw the greatest lustre over the institution benefitted by his labours. Yet if our assurances, received from various quarters, be correct, the candidate least likely of success, is precisely the gentleman most entitled to it. Merit would appear to be a quality far too subtle for the cognizance of the present system of hospital elections, which, accordingly, regulates its favours by a much more tangible and obvious standard-the length and strength of the candidates' purses. The decision, on the day of election, will convey to the poor patients but the Governors' decision on their physician's Already golden pecuniary superiority. instrumentality has been in full play. The prospect of a vacancy has softened—as by a miracle-the flinty hearts of stingy kinsmen, to the third and fourth degree. Ladies'-maids, retired serving-men, and insolvent tradesmen, have suddenly grown rich-and charitable as rich; and the Hospital List, in the short space of a month, shews two hundred new Governors moved by the soft impulses of divine benevolence to befriend an hospital, on whose existence depends, not the fortunes of some wretched invalids accustomed to misery, but, alas! much worse, those of some helpless, unprovided physician. The owner of these newlypurchased votes-whom rumour names as he who has most need of such extraneous appliances-we mean the youthful Dr. Kingston,-that gentleman will inevitably be the future physician, unless the other candidates are prepared virtually to bid a larger sum for the post. Dr. Hunter, we are told, will make no money-tender, and we may, therefore, place his appointment among those which are described by the Greek grammar as in the " Paullo post futuro" tense. Dr. Basham, judging from the unceremonious manner in which for the exciting cares of canvassing, he has been bilking his students of their purchased lectures, is not likely to be so very fastidious; and if the doctor's purse only equals his will, we shall no doubt have a neck and neek run between him and his more youthful competitor.

This is utterly, intensely, disgracefuliniquity of our hospital appointments, that we should hardly be excusable if we now the injustice to modest merit—the mischievous results to patients-and the general violation of the best rules of decency and morality, which the present system necessarily engenders. There may be, as some allege, something of fortune in every physician's practice—but there can be no doubt that in the long run, as in even the as a public lecturer—a trait but too rarely greatest game of chance, the greater skill noticeable in our London lecturers: but, must achieve the greater number of tri-

remembered, is the trophy of each success -as its destruction, or impairment, is the result of each failure: and it is not too much to say, that the deliberative choice of a secondarily-qualified attendant for the poor, is the tiovernors' sentence of death on an indefinite number of patients; and that the election of one ranking lower in qualifications, is a similar sentence on a still greater number of victims. But as we are told that it is preposterous to ask that the poor's health and lives - much less, the education of the students-should take precedence of the Westminster Governors' business-like anxiety to serve the protegé of a friend or customer, -- we place these considerations before the candidates themselves, and ask those of the three before us, who are conscious of their secondary standing in science, how will they feelthe public, the while, frowning that distrust on them it ever shews to ill-acquired and ill-discharged responsibilities-—as those untoward events, mildly called accidents, and the sure consequences in the long run of all incompetency, shew themselves in the fulness of time, in their calamitous, but well-scrutinized public practice? If this consideration be without power, let them reflect that the time when mediocrity could, in calm ease, and unseathed by public animadversion, work itself into profitable note, by undertaking perilous charges beyond the measure of its powers, is rast. Moderate abilities are no crime with moderate pretensions; but when they hustle for an eminence at once undeserved and hurtful, they must not complain if sturdy common sense use his truncheon to keep them in order. Of one thing empty pretenders may be certainthey cannot court publicity and mischief, and escape ungibbeted by the Medical Times. The Babingtons and Hale Thompsons do not occupy all the gallows which we have constructed for the gang of moral convicts.

Two courses lie before the Westminster Hospital Committee of Management, accordingly as they mean to act a conscientious part on the one side, or a frank piece of profitable wickedness on the other. Either let them defer sine die the election, and in the meantime appoint a substitute whose name would retrieve the character, and whose labours would renovate the utilities of their charity; or else let them publicly announce for the benefit of their funds, the plain fact, without disguise, that their appointment is open to any man who will pay the most money for it. An advertisement in the style subjoined would draw a host of fresh candidates, and get a far better price for their appointment than even that Dr. Kingston advances.

"The Managing Committee of Westminster Hospital have a Physicianship to dispose of to the highest bidder. The only qualifieation required is hard cash(say1000l.)a sum which if a little high in itself, is certainly small in reference to the elevation of the office, the absence of all other requisitions being

without practice, or to a superannuated valet, or coloured footman, this is a most eligible speculation: the first gentleman securing the advantage of unlimited practice on the poor, with free vivisections in their highest range (if required); and the second by the single preliminary of purchasing a German degree, being at once elevated into one of the highest positions of a learned profession, with the probable chance (if he be a man of tact and decorum) of a baronetcy and presidency of the College of Physicians.—Apply to the Secretary at the Hospital,"

Illur ben miseri traducimus!

THERE has been much - not to use a harsher term-disgraceful equivocation employed on the question concerning the examination of practitioners. The new practice, in reference to their admission, has been denied in plain terms, under the verbal shuffle that it is not a regulation. Now, the question is not, never waswhether a certain practice of known and acknowledged occurrence originated in a formal resolution, or was formally inscribed as a regulation on the College books. The question was, whether such a practice existed or not-and, its existence confessed, the whole matter in issue was ended. We say it existed, -so does Mr. Guthric; and the subterfuge of denving the fact of a regulation in order to imply a breach of veracity on our sides, is nothing short of palpable and disgraceful immorality. In the new announcement which we last week shewed to be so peremptorily required—and which is now officicially advertised, the College is made to stand out at once our accuser and its own condemner. There is not only a falsehood in the document, but there is a self-convicted falsehood - a transparent falsehood, which the council exposes in its own short statement. We are told first, that the reports published, and, with due respect to the priority of the College's own president, we willingly avow our share in publishing them; we are told that these reports are erroneous. Yet, what is the very next sentence? A resolution that gentlemen practising surgery before 1835 shall be admitted to examination, on producing proofs of such anatomical and surgieal education as may be deemed sufficient by the Court of Examiners! Now, practically, what is the difference between this regulation-for we may now, we suppose, term it so-and Mr. Guthrie's, and our statement,—that practitioners were admitted to examination on their merits practically, without reference to the certificates that were customarily required? The written rule admits, it is true, a most mischevious discretionary power-a dangerous liberty of personal favouritism in the conneil; but, was not this the very vice we condemned in the council's past secret practice on this matter, and which Mr. Guthrie by his honest letter, and we by our public remonstrances, sought to correct ? Every gentleman applying for examination examination on their merits without reference server.

to justify his confidence; but, to restrict the examination to such gentlemen only as please the council, without any statement of a fixed standard of the sort of requisites that must please them, is an unwarrantable assumption of power for discreditable purposes, which the charter of the College can no more be made to sanction than can common sense or justice. The resolution, it will be seen, so far from opposing, supports our statement-that practitioners have been, and are, (we use Mr. Guthrie's words,) admitted to examination on their merits practically. The power of doing this, nay, the usage, is here distinctly claimed by the College; the only addition the examiners make to our statement is, to announce that they make such admissions dependant on their private caprices, their likings, and dislikings. They diseard the principle of general uniform right, which we sought to connect with such admissions, and claim to act on the principle of the imperious harridan of the Satirist—" stet pro ratione voluntas." If they do prove us wrong on one point of fact by a subsequent arrangement, they do so with no increase of credit to themselves!

Will "The Royal College of Surgeons in London' allow us—The Medical Times humbly to point out to them a rather remarkable non sequitur in their advertisement, which makes the document if not looked on as a piece of thin skinned duplicity, a very discreditable piece of literary composition? If their motive for taking the grave step of publishing be, as they say, to correct erroneous statements, how happens it that they set about it, not by publishing old regulations, but besolving on something new? Was ever Hibernicism more complete than this notion of theirs that the establishment of a new practice is the natural mode of correcting the erroneous impressions existing on an old regulation? That the way to publicly explicate a given something, is to be silent on it, and explanatory on something else? Verily, verily, the wits of the badgered Examiners seem in a sad state of bouleversement.

Subjoined will be found a communication which throws additional light on this curious chapter in the council's history.

THE COLLEGE REGULATIONS.

(From a Correspondent.)

WE again feel ourselves obliged to recur to the new "regulation" regarding the admissions of practitioners to examinations, which if not issued in the form of a printed proclamation, has been acted upon in a number of in-The real state of the matter is this; Mr. Guthrie writes a letter to Dr. Hastings, stating (what was absolutely true) that petitioners are to be admitted on their merits. Gentlemen have passed and are passing according to this new arrangement. Mr. Guthrie, with his customary courtesy, states that by "the kindness of the Court of Examiners, practitioners are, and have been admitted to amongst the poor during winter. Ayr Ob

will, of course, have had some education to the regulations in force "- Kindness! Contempt upon the word!—A public governing body is morally bound to frame those regulations which shall most conduce to the good of the public. What has kindness, personal kindness, to do with the business." justice, not "kindness" which we and the profession demand. But this word kindness we fear lets "the cat out of the bag."

There is dissension in the Council of the College, part holding for the admission of practitioners upon their merits and part foolishly opposed to it; whereby (in case of one single instance of favoritism being proved,) they will render themselves liable to legal prosecution. The secretary has been inundated with applications, many of which he has for many days neglected to answer, keeping thereby some men of the highest respectability in the profession in a most cruel state of suspense. But after all this what has he summoned up resolution to state, so late as last week, in answer to an application made to him, by a member of the profession, regarding his admissibility for examination? -why, that arrangement referred to (admitting members on their merits) was unknown to the Court of Examiners, as no regulation of the kind has been made;" thus at once throwing the accusation of falsehood upon Mr. Guthrie's statement.

As Mr Guthrie is the great mover in our close body corporate, we should advise practitioners who are in doubt about their admissibility, to write to him; no doubt he will give them every information in coincidence with the information contained in his polite and highly important note to Dr. Hastings, read to the Provincial Medical Association in July last. In the mean time, what account are the Couneil going to render us of their conduct? The College of Surgeons presents a most perfect specimen of disorganisation, and this occurrence, more than any thing which has yet transpired, will hasten a thorough reform of this corrupt body :- it has confirmed their downfall as a close corporation.

Will it be believed, that one gentleman, in extensive practice, had his ticket of admission sent him by the secretary, with orders to present himself for examination on a certain day, and upon so doing was refused admission, although he had the order in his hand? If this gentleman is not an ignorances indeed, he will bring them to a legal account respecting this business.

We wait with anxiety the proclamation of the regulation respecting practitioners now on the eve of being issued.

The Secretary of the College informed several persons, that pupils of old standing would not be admitted after January, according to the old regulations. This is now contradicted by some of the College Council, and affirmed by others,

ROYAL COLLEGE OF SURGEONS LONDON.

List of gentlemen admitted members on Friday, November 25th, 1842:-

f. H. Woodforde, J. Dowling, W. Roden, H. Aylward, S. S. Smith, J. J. Gray, C. J. Newstead, At Collinson, J. Maliony.

Brownst,-Dr. James M'Adam, late President of the Medical Board, Bombay, has bequeathed in trust to the minister and heritors of the parish of Dundonaid, of which he was a native, the sum of 1,000% to be invested in the public funds, and the proceeds to be annually distributed in blankets and coals

REVIEWS.

Engli h Patents for 1841. By A. PRICHARD, M.R.L. &c.

Turs is the promised sequel to the author's "List of Patents granted during the present Centrey." The increase in the number of Patents, and the importance of knowing what are "the goods" given us bythe increased enlightenment of our times, as well as those which without offending law, we can claim full dominion over, both as regards creation and use, are reasons which make this neat list very acceptable. The arrangement appears to us good: the index of subjects is copious and of easy use, and we may shortly show our practical appreciation of the utility of Mr. Prichard's labours, by transferring to our pages that portion of them which has reference to improvements in chemistry and pharmacy.

Homoropathy Explained, and Objections Arswered. LEARIL-To the reproach of public taste or private veracity, this brachure appears from the fitle-page, to have reached a circulation of four thousand. The most absurd systems, if they have enthusiastic followers, are not without useful fruits. Astronomy grew out of astrology-and we are indebted for some of our most potent agents in medicine and useful discoveries in chemistry to the honest delusions of the alchemists. So to the deception, more mischievous than either, homocopathy, are we indebted for some important new lights in pathology and therapeuties, but especially for the increased attention it has directed to the virtues of a good regimen, and the importance it deservedly attaches to the vis modicatrix naturæ. In producing, or tending to produce these results, homoeopathy has performed its mission, and the sooner we now get rid of its trying similia on a dying man, whose vital powers are but already too overpowered by the simile he already groans under, and its practising on desperate cases by infinitesmal doses, the better for the credit of common sense, and the longevity of humanity. The author before us rejects, we see, altogether, all external applications, as blisters, moxas, setons, &c., on the score that they are mere pulliatives, and as such, homoropathy (the off-hand doctor!) cannot condescend to use them! The book is more remarkable for its inconsequential reasoning, than anything else. Good faith and folly go hand-in-hand. The style is better than might have been expected.

ARGUMENTS OF SURGEONS AGAINST MESMERISM.

(To the Editor of the 'Medical Times')

SIR,-Allow me a few brief observations on the arguments which (according to your report) were employed by several of the leading sergeons in London against receiving the case of amputation during measuric sleep, as having been really successfully performed. Er. Moore requires affidavits, Doctor James Johnson requires more; he has implicit confidence in the veracity of Messrs. Topham and Squires Ward, but fraukly denies any belief in the veracity of his own visual sensations. To say, I will not believe what I see, is absurd; to say, I will not trust your deductions from what you saw, is reasonable. Instance: I see the sun in the East, South, and West, respectively at morning, noon, and evening; deduction. The sun revolves round the earth. Visual fact true, deduction false. People never said, we see the sun revolve round the earth; mesmerizers never say, we see mesmerism act. Let Dr. James Johnson mend his phrase. Mr. Alcock says that pain may be felt but not expressed. Is this a common ease It would be unfortunate if it were, as then, serious injury might be inflicted without warning being given. But it is at times very desirable, especially

during operations, in which the patient's expression of pain, is frequently the greatest impediment to the operator's hand. Grant for the moment that pain was felt, but not expressed in this case; then by performing certain motions of the band, we are enabled to prevent the nerves of any given patient Zom expressing pain. Theory apart here is a most useful result :--will Mr. Διcock reject it? The same remarks apply to several of Sir B. Brodie's cases; the case in which pain in the ischiatic nerve was expressed, contrasted with Mr. Topham's case, in which no such pain was expressed, tells wonderfully in favour of the latter; especially when no such pain was even remembered, Sir B. Bb. concluding argument is as follows. 4. The French Academy have made a report; I believe that that report is correct; Therefore I disbelieve in mesmerism. 2, None who dishedeve in mesmerism should receive Mr. Topham's case; I disbetteve &c.; therefore I should not receive $\&e^-$ 2. (And this is the grand syllogism of all,) all medical men should think us \vec{I}/dn : the Medico-Chirargical Society is composed of medical men; therefore-The report of Mr. Tophen's case should never have been read!! Dr. Blake finds one girl named Ross, was so silly and wicked as to feight mesmeric phenomena, therefore, all persons have feigued; therefore &c. in Mr. T's, case !!! Mr. Bransby Cooper knowing, I suppose, how all other effects are produced on the nervous system, requires that the mesme rizers should know how the effects they report have been produced. If Mr. B. C. world inform the world how any effect is produced on the neryous system, he would confer a benefit on society. Mr. Liston, who went to hear a case of amontation, hoped to have heard one of clairvoyance! 'pity it was that Dr. Syme gratified his hope. Dr. Arnott argues: I have known fifty onnees of blood taken from one patient, cause her not to express pain; no case in which other means have produced the same effect has presented itself to me; therefore—any evidence for other means producing such an effect is inconclusive! I could parallel this argument, but it is not worth while.

Conclusion,-Without stopping to consider the ideas for which the words, imagination, stoicism. beroism, philosophy, or what not are the representatives, the lemaed in surgery, pronounce that imagination, &c., are real agents, and do really produce these effects, and that, therefore, mesinerism is a delusion. Now Mr C. II. Townshend (Facts on Mesinerism) has long ago shown the true meaning of this argument, and its true bearing upon so-called mesmeric phenomena; and his conclusion, which I would have considered as the moral of this letter, is, in substance, the following : granted that imagination is the real agent, mesmeric passes are the external agents whereby the imagination is excited so as necessarily to produce these results; your "imagination" is only another line in the chain of cansation, and one which we have clearly no occasion to take account of ; we see the mesmeric palses, we see the mesmeric phenomena, and they necessarily stand to us in the relation of cause and effect. To disprove this, it must be shown, not that similar phenomena have followed from different causes in different circumstances, but that different phenomena have followed the same cause in similar circumstances. am alraid, I have already occupied too much of your valuable space, and hasten to conclude.

Stleogism.

Extract from a Lecture on Percussion, with an Account of a New Percussion Instrument for Investigating the Diseases of the Chest. By C. J. B. Aldıs, M.D., Lecturer on Medicine, at the Charlotte Street School.*

GENTLEMEN, -- The subjects of percussion and auscultation, to which I am about to call your attention, are of great importance; for by employing these methods of diagnosis, you will be able to distinguish with precision, various diseases of the clust, and by their neglect, some important lesion of the lungs may be

* Delivered Nov. 28, 1842.

overlooked, which it will be your duty to endeavour to detect in order that you may apply the appropriate remedies. Besides when you recollect the frightful ravages, which pulmonary affections make among mankind; a fact rendering such diseases of the highest importance. I need searcely say more to stimulate your attention to these means of diagnosis. In therefore hope that you will reflect upon the value of percussion and auscultation, the former of which will occupy us in the present lecture, and continually practice them.

Method of Percussing. - Some practitioners percuss with the fingers of the right hand, their extremities being in the same line and in a state of demiflexion, striking the chest in a perpendicular direction. Others employ four fungers of the right hand to strike—the lingers of the left hand applied to that part of the chest under examination. Piorry invented the plessimeter, a round piece of ivory to be placed on the chest and struck by the fingers for the purpose of preventing the pain, likely to be felt by some persons when the parietes of the chest are percussed. Subsequently, a light hammer having a leathern face, was brought into notice; the ivory plessimeter being struck with it by the right hand. More recently another instrument has been introduced; a handle is attached to the plessimeter, which is struck by a lammer held in the right hand.

Although percussion may seem a very simple operation, still it requires much practice, and many precautions are to be attended to. Now it is very requisite that you should produce equal sounds in comparing the opposite sides of the chest, for the slightest inequality in percussion will produce a difference in sound, and even on examining one side of the chest, we cannot place much reliance on unequal sounds.

About five years ago, I constructed a rough model of an instrument in wood with a hammer attached to it, having a spring handle, to be raised by the right hand, but I abandoned it in consequence of being in the habit of percussing the chest with my fingers. More recently, however, I made an outline of this iustrument on paper, and thought that by means of a regulator, its elevation might be so managed, as to produce uniform sounds; for on raising the hammer it falls immediately, the spring handle tonches the regulating screw, which is moveable, when it may be desirable to effect a greater or less elevation of the hammer, in order to produce greater or less uniform sound Messrs. Philp and Whisker, late Savigny, of St. James's Street, made the instrument for me.

Description of Dr. Aldis's Patent New Percussion Instrument.—The plessimeter is made of leather, moving upon a swivel, to adjust itself to the part. The percussor is attached to the stem of the plessimeter, and acts upon a joint; by pressing down the handle of the percussor, the spring throws the percussor down upon the plessimeter, the force of the blow being regulated by a serew.

THE NEW PREPARATION OF IRON.

I'nder the name Aqua Chalybeata, Messrs, Bewley and Evans, of Dublin, have given us a new preparation of Fon,which possesses with the three advantages of chemical permanence, solubility, and the absence of that constipating tendency which so much interferes with the utility of the common preparations, an agreeableness of faste accompanied by a brisk effertescence which makes it as agreeable as Champaigne.

The report of an analysis by Dr. Ure, has been submitted to us which after a very satisfactory statement, is concluded with the expression of the

Doctor's belief that this preparation premises to form the mest efficacious of chalybeate medicines. The opinion of Professor Brande is thus given in

London, November 24, 1842. I have examined Messrs. Bewley and Evans's new Chalybeate water, which is a solution of a critrate of iron in water highly impregnated with carbonic acid. I think that this solution will prove a valuable addition to the materia medica, and that it is likely to agree with the system, when many of the other cledy heate preparations are inadmissible; while its effervescent property and agreeable flavour render it well adapted for very delicate stomachs and for administration to chil-(Signed) - WM. Thos. Brands. dren.

GUNSHOT WOUND.

SECONDARY HEMORRHAGE AND LIGATURE OF THE SUBCLAVIAN ARTERY.

Ev William Smith, Log., Surgeon. (For the 'Medical Times.')

PRIVATE MAHONEY, of the sappers and miners, of the British Auxiliary Legion, was wounded during the assault and capture of Irun, on the 17th of May, 1837, by a musket shot, which entered immediately under the left clavicle. In this position, passing in a straight line, it fractured anteriorly the second rib; and entering the cavity of the pleura, penetrated the superior lobe of the left lung; from thence proceeding backwards, it fractured again the posterior portion of the second rib towards its spinal attachments. After this, it pierced the body of the scapula; and coming in contact with the integuments of the back, its course was diverted downwards, until it finally lodged in the subjacent cellular tissue, below the inferior angle of the fractured bone.

For the first two days after the receipt of the injury, cold applications were applied to the situation of the wound; and this local treatment was accompanied by venesection, and saline medicine of a laxative nature every third or fourth hour. There being no wound externally, on the posterior part of the chest, I began to suppose that the bullet must have lodged in the cavity of the pleura, notil on the morning of the 19th, when the patient complained to me of slight pain at the inferior augle of the left scapula. On examining the part complained of, I felt a round hard substance pretty deeply embedded under the integriment, which I had no doubt was the bullet. I therefore made an incision directly through the skio, down upon the foreign body, which was extracted without difficulty.

I p to the 21st, everything seemed to proceed favourably; indeed, so much so, that without examination, any injury of the pleuritic cavity from the present symptoms could not have been supposed. At this time, however, the symptoms of inflammation became apparent, and much constitutional disturbance supervened. The pulse became full, strong, and accelerated, the breathing laborious, the mine high coloured, and diminished in quantity; whilst at the same time there was considerable pain in the superior portion of the left lung, and the situation of the wound. The local and constitutional symptoms of incipient pneumonia were present. On the presentation of the above, venesection was performed to the extent of Ibij. which produced much relief. The bowels immediately_after were freely opened; and the symptoms progressed favourably until the foreneon of the 24th. On that day about 11 v.m. I was informed by the ward orderly, that Mahoney was bleeding profusely from the wound on the anterior aspect of the chest. On receipt of this information I proceeded immediately to his bed, and found the orderly's statement correct. I examined the wound,

it in part and shewed the hemorrhage to be of a venous character. On introducing my foretinger along the course of the wound, the subelavian artery could be distinctly felt pulsating under the claviele; and it was my impression at the same time, that the baumerrhage proceeded from the subclavian vein. I now applied a few folds of cloth soaked in cold water to the shoulder; which had the effect of stopping the hæmorrhage almo t instantaneously; and as the quantity of blood lost was not great. and as it was also of a venous character, I reported the case to staff-surgeon Gannon, hoping there might be no more cause for All seemed, after arresting the haralarm morrhage, to go on favourably with Mahoney; the untoward symptoms of poeumonia with which he had been previously seized, had been apparently much benefitted by the accidental hemorrhage; and it was thought, that a gunshot wound of the pleuritic cavity in this case had a fair chance of being enumerated amongst one of the cures. Our hopes, however, were not doomed to be verified. On the morning of the 26th, at ten o'clock, the homorrhage again resumed, perhaps to the extent of one pound, before it was arrested by cold applications similar to those used in the first instance. A brief consultation was now held on the case; the medical officers present, being staff-surgeon Gannon in charge, as-istant-surgeon Brery and myself. The case was a puzzling one. There was no doubt but that the subclavian vein had been originally injured, and now ulcerated; and such being the case, it was difficult to say whether or not, the subclavian artery was altogether safe. Unless, however, the hemorrhage should be arrested, there could be no chance of the patient's life being saved; therefore a doubtful remedy was resorted to, in preference to none at all. To tie the vein would have been a novel, and according to surgical practice, a dangerous proceeding; and even if it should have turned out successful in itself, it was very questionable whether the artery was uninjured. For this reason in order to meet the hiemorrhage at all points, I proposed, in case it should recur again, to tie the Subclavian aftery at the point where it passes over the first rib. To this proposal, after many doubts on the success of the measure. Messrs. Gannon and Brery con-ented; provided nature should seem determined to show the patient no mercy. According to our resolution the opportunity for operating was not long delayed. On the following day, the 27th, about II A.M., the hemorrhage recurred; and the operation was proposed by me, and assented to by the patient, in a few minutes.

The patient was not removed from his bed, but simply placed in the most favourable position with pillows; and with the able assistance of Mr. Brery. I began my operation. An incision was made above the clavicle, through the skin and subjacent cellular tissue, commencing at the clavicular attachment of the sterno-mastoid nuscle, and extending on a line nearly parallel to that bone, outwards to the distance of nearly three inches. From the steroal extremity of this incision, a second was made upwards, on a line parellal to the external margin of the sterno-cleido-mastoid, to the extent of two inches; and the angular flap was dissected backwards from the union of the two incisions. The cervical fascia was next cut through; and the subjacent adipose substance pressed aside with the handle of the scalpel, until the scalenus anticus made it appearance, crossed by the omo-hyoid mu-cle. The cervical plexus was then pressed gently backwards; and I placed my finger anterior to this, upon the first rib; but contrary to my

its pulsatory motion. This circumstance annoved me the more, as I deemed my incision sufficiently large and clear of blood; but being certain I was in the usual situation of the artery, I took Weiss' spinal aneurismal needle, and placed its point upon the superior margin of the rib. anterior to the plexus, and as I judged, behind the artery. Then pressing it firmly forward a few lines, taking care to keep its point still in contact with the margin of the rib, I turned the same upwards by a rotatory motion of the handle; and the former made its appearance, elevated near the centre of the wound. On keeping the handle in the same position, and pulling the needle gently upwards, I discovered the subclavian artery lying on its spiral curvature. I now made certain that this was the case, by pressing firmly between my fingers and thumb, the vessel and the needle together; this proceeding immediately stopped the pulsation in the wrist, which before, was free and perceptible. The ressel was now tied, and the wound closed without the loss of one ounce of blood during the opera-

The patient stood the operation well, and for the first six hours, complained of nothing particular, save a slight numbress of the left arm, fore-arm, and hand. At the end of this time, however, his breathing became somewhat laberious; and this untoward symptom continued to increase in such a manner as to prove, that the termination of the case would be fatal. The patient died twelve hours after the performance of the operation. After the application of the ligature, however, the hamorrhage was completely arrested; and had the lung been less injured than it presented itself on dissection, the chances would, there is every reason to believe, have been in favour of the

Sectio Cadaveris,-twelve hours after death. -The pleura costalis and pulmonalis were firmly united by old adhesions, on the left side of the thorax; and the superior lobe of the left lung was penetrated by the bullet from before backwards. The second rib of the same side, was fractured anteriorly and posteriorly; and spicula of its anterior portion were found imbedded in the parenchyma of the lung. For a considerable distance around the wound, the lung presented the appearance of sphacelation. The subclavian vein was ulcerated, and presented a ragged opening communicating with its canal, in the situation of the wound, below the clavicle, from whence the blood had issued. The coats of the artery at the same point were inflamed, and presented a black spot in the centre of the inflamed surface. The other viscera were healthy. The artery was sound at the point on which the ligature was applied.

D.7. Bishopsgatt Street, Without October, 26, 1842

PERISCOPE OF THE WEEK.

STATISTICS OF PHYRISIS .- Dr. Briquet, of the Hopital Cochin, in Paris, gives the following as the result of careful observations:- Of 609 individuals who had died in the hospital throughout the years 1838, 1839, and 1840, 182 had succumbed under phthisis, of whom 91 were males and 91 females; while 427 (201 male and 228 female) died of other diseases. It would appear, therefore, that taking into account the whole number of individuals dving in the hospital, the mortality from phthisis was about one-tenth greater arrong males than females -Of 98 pluthisical patients, 30 were descended from parents who had suffered with the same disease; and out of 88, 47 had been brought up in towns (24 in Paris) and thin the country, hereditary preand removed several clots of blood, which filled expectation, could neither feel the artery nor disposition having been as frequent among the latter as the former .- 24 patients were tall, large built, and corpulent, 9 tall and slender, 15 diminutive and meagre; the rest were of medium height and make. 33 were naturally of a robust, and 21 of a feeble constitution; and the rest were of intermediate vigour .- As to temperament, some curious particulars were remarked. Out of 65 males, 29 were dark complexioned, with dark hair; and 36 were fair, 4 of whom had white, 4 yellow or reddish, and the remainder chesunt-coloured hair. Of 37 females, 8 had dark hair and complexion, and 29 were fair, nearly all having hair of a chesnut line. Out of 75 male patients not attacked with phthisis, 29 had both the hair and skin dark, and 46 were of a fair complexion, 12 briging light, and the rest chesnut-coloured hair; while of 50 females, also not phthisical, 26 had dark skin and hair, and 24 a fair complexion, 2 having yellowish, 4 white, and 48 chesnut-coloured hair. - In 63 out of 70 patients, the extremities of the fingers were more or less abnormally developed, or the nails enryed (scatiformes.) In 85 cases the conformation of the thorax was particularly noticed: in 37 it was well formed; in 48 altered more or less from its natural shape,-Ont of 94 patients, 31 were little subject to eatarrhs, while the remainder were more or less liable to take cold readily, and 9 had been accustomed to a eough from infancy. Those born of phthisical parents seemed not to be more liable to take cold than others. Of 37, 15 were particularly apt to suffer discomfort from a cold atmosphere; but here again, those of phthisical descent were not more liable than the rest .-As to the age at which phthisis usually makes itself manifest, -in three-lifths of the cases, it is, according to M. Briquet, between the ages of 20 and 35 years; and in most of the remaining cases, between 35 and 50 years of age. The mean age at which the patients descended from parents subject to phthisis were first attacked, M. Briquet found to be 27; while in those in which the disease was not proved to be hereditary, 31 years of age was the mean of its first appearance. The distinction of sex appeared to make no difference in this particular. Of 98 cases, 30 supervened during Dec., January, and February; 24 in March, April, and May; 20 in June, July, and August; and 24 in September, October, and November.

NEW MEANS OF VOMITING. - Dr. Marshall Hall recommends the following means of producing vomiting in eases of poisoning. It frequently happened that we were called urgently in such cases without possessing an emetic, an antidote, or the stomach-pump. What was to be done? Call in aid the excitomotory principle. We see the sailor lying across with the stomach pressing on the yardarm, yet he does not vomit. The cardia is closed, effectually closed, against such pressure. Do the other hand, we often see a patient, especially when under the influence of a narcotic poison, attempt to induce vomiting by irritating the fances, in vain. In the latter case there are, however, frequently ineffectual heavings and attempts to vomit. Use, then, these efforts to remove the poicon. During these efforts the laryny is closed and the cardia opened; it is the insufficient action of the abdominal muscles which renders the attempt to vomit abortive. At this moment, if we apply foreible pressure to the abdomen, the siomach is emptied. That pressure, ang-mented at intervals, produces the effect of pressure applied over the distended bladder, after introducing the catheter: the stream is proportionately augmented. "I have seen,"

been introduced, a similar effect. The tube has irritated the fances, and the cardia has been opened in con equence, whilst an effort of voniting has been induced. This, though slight, has caused the contents of the stomach to pass both through and by the sides of the tube, and external pressure has produced the same effect as before. It is this simultaneous irritation of the fances and pressure on the abidomen, that I propose for the treatment of poisoning. It will succeed, I believe, in those eases in which emetics would succeed. It is always at hand, the stomach-pump being reserved for those cases which are strictly appropriate to its use, or to complete what this has left imperfect. The patient may be placed leaning with the stomach over a chair, protected by a pillow, whilst the fingers are introduced to irritate the fances.

DISEASES OF THE HEARY. - According to M. Tanchon, tumours of the female breast increase with the progress of civilisation. Thus, in the department of the Scine, during the year 1830, 668 persons died of cancer; in 1840 no less than 889, being an increase of from 1.96 to 2.40 per cent, on the total mortality during that period of 382.851 individuals. In Paris, the number of deaths from caucer in 1830 was 595; in 1840, 779, giving a mortality of 2.54 per cent on the deaths; while in the rest of the department the deaths were-in 1830, 73; in 4840, 140; or t.63 of the total number.—M. Tanchon proposes various means for arresting the progress of tumours of the breast. He speaks strongly against excision and the use of caustie substances. Amongst other means, he proposes pressure, together with the use of the following substances, which are applied in little bags: - Induret of potassima tive parts; powdered sponge, ten ditto; hydrochlorate of ammonia, forty ditto; hydrochlorate of sodium, ten ditto; or a powder composed of powdered sponge, twenty parts; nitrate of potass, one ditto; Florence iris, one ditto. Thirty patients were treated in this manner, and all seemed to be very considerablyimproved. In some cases the manimary gland disappeared altogether; in most only a remnant of it was left, although several of the patients had been advised to undergo an operation before the treatment had been commenced; it was not found necessary to have recourse to the knife in any instance.

INOCULATION OF THE MEASLES-Dr. M. Von Katona, of Hungary, after renewing the experiments of Dr. Howe and Speranza on this subject, speaks highly of the value of inoculation in dangerous epidemies. He says, in 7 per cent, of the cases the inoculation failed. but the remainder took the disease, which ran its course in a very mild manner, strikingly different from the disease as it prevailed at the time. In no instance was the disease thus communicated fatal. The inoculation was performed in the same way as for small-pox, by taking some fluid, mixed with blood, from undericath the efflorescence. A red areola formed round the point of insertion and then gradually declined. About the seventh day, fever and the usual premonitory symptoms of measles set in; on the ninth or tenth day after inoculation, the cruption appeared and ran its usual course but in a very mild manner. On the fourteenth day the fever commonly declined, and on the seventeenth (or seven or eight days after the eruption) the patients were convalescent.

pressure applied over the distended bladder, after introducing the catheter: the stream is proportionately augmented. "I have seen," labouring under acute rheumatism were subsuited by Dr. Briquet, Paris, to treatment by level less than that of the molecules. The fi-

the sulphate of quinine, they were not selected eases. During the first day of treatment the patients took (according to sex, age, constitution, &c.) from four to five, or six, scruples of sulphate of quinine in eight onnes of gum emulsion. The mixture was given in teaspoonfuls every hour, so that the whole was taken within the twelve hours. On the following day the same dose was administered in the same way. On the third day, as the symptoms were almost constantly greatly relieved, the dose was gradually reduced by one or two scruples daily. The period of treatment was generally six to eight days, during which the patients took from an onnce to an onnce and a quarter of sulphate of quinine. The medicine was usually given in the form of mixture; but when the patient expressed any dislike to it, the form of powder or pills was selected. The auxiliary means employed were a decoction of borrago for drink, opiate poultices, and absolute rest. Of the twenty-three patients, fifteen were males, nine females, from twenty to thirty years of age; one-third were strong, the remainder weakly and of lymphatic constitution More than one-third had been subject to rhenmatism, and nearly one-fourth had symptoms of chronic pericarditis. On an average, when admitted into hospital, the pain and swelling of the joints had existed for from three to four days. They all, with one exception, began to take quimine on the day after admission; at this period, in two-thirds of the eases, the complexion was a straw-yellow colour; tongue white and moist; great thirst; no appetite; in a few, diarrhoea and cough. In about a fourth there were evident signs of recent or chronic pericarditis; in four the pulse was 60 to 65; in thirteen, 70 to 80, or 90; in six, from 110 to 120. In all the presence of rhenmatism was indicated by severe pain, with tumefaction and tension of the joints; heat and redness of the skin, and enlargement of the neighbouring veins. In some the inflammation was of a phlegmonous character; in others there was merely hydarthrosis; in others muscular pains The number of points simultaneously attacked varied from four to twelve. After twenty-four bours treatment all the patients, except four, experiencedveryconsiderable relief of their symptoms. In one the local symptoms completely disappeared after forty-eight hours; and the same occurred in fourteen patients during the course of the third day. In six patients there was no sign of local disease on the fourth day, so that at this period all the patients, except two, were enred; of the latter, one was a young female labouring under general acute rhenmatism, which persisted up to the seventh day; and the other, a young man who refused to continue the treatment, on the fifth day. By complete disappearance of the symptoms, M. Briquet means complete absence of pain and timefaction, with restoration of the movements of the affected joints. It was not observed that the date of attack, when the treatment was commenced, had any influence on its efficacy. A relapse took place in two cases only; and the only example of failure was one of rheumatic affection of the wrist-joint

NATURE OF TABLES.—The elements of the blood, says Mr. William Addison, visible by the microscope, without any manipulation, are—1st, The red corpuseles; 2d, the colourless corpuseles; 3d, molecules and granules in the interior of the colourless corpuseles; 4th, similar molecules and granules isolated in the liquor sanguinis, and independent of the corpuseles; 5th, the fibrine, which may be seen by the microscope coagulating in the form of delicate cylindrical fibres, having a diameter even less than that of the molecules. The fi-

any kind. Molecules, granules, and colourless corpuscles, enveloped in a net-work of fibrinous fibres or filaments, with variable quantities of entangled serum, form the entire mass of the buffy coat of the blood. The phenomena displayed on the addition of liquor potassæ (Brandish's alkali) to the blood corpuseles are very remarkable; the first effects of the fluid are very rapid and energetic; after a short time, by following the directions given in the paper, the alkali may be observed slowly diffusing itself among the corpuscles. The red corpuscles may be seen to explode and disappear instantaneously, or to barst open gradually, and discharge their contents, and many singular changes of form may be witnessed. The colourless corpuscles may be completely and slowly dissected by a proper application of the liquor potassæ-all the stages of the process and the number and nature of their contents may be readily seen by the microscope. For this purpose, a drop of the liquor sanguinis from the surface of buffy blood is removed by the point of the finger, and transferred to a slip of glass, previous to coagulation; it should be spread out on the glass, and the liquor potassic cantionsly added from the point of a penknife or a lancet, while the corpuseles, without any covering, are under examination. This manipulation, with a little practice, may be readily accomplished with one of the small upright french microscopes, and by moving the slip of glass gradually forward, the progress of the alkali may be watched for some time. Rapid changes take place; molecules and granules are developed in the interior of the corpuscles, which enlarge by imbibition, and then dehisce or explode, the molecules and granules pouring out of them in great numbers; if the alkali be acting weakly, the molecules swell to granules, and the granules enlarge previous to their final disappearance by dissolution in the liquid. Pus corpuseles differ in no respect from the colourless blood corpuscles, except only as they are altered in size and appearance by exhaling their own contents, or by imbibling the fluids with which they are associated. Water and the dilute acctic acid cause them to enlarge, developing the molecules and granules in their interior. The effects of the liquor potassæ upon them are very singular and instructive. On the application of this liquid, the corpuseles immediately begin to enlarge by imbibition; a great number of granules become exceedingly conspicuous within them; finally, they burst open or explode, and the graintes are dispersed around. Several cases and experiments are minutely detailed in corroboration of the foregoing statements, from which the two following are seleeted :- Case of Shingles .- One of the clear transparent vesicles was opened with the point of a lancet, and a great number of colourless blood corpuseles was found by the microscope in the fluid. Many of them exactly resembled the corpuseles in the blood; others appeared a little shrivelled, and a few were remarkably large. All of them contained molecules; the large ones had several bright granules, which, on close inspection, were evidently moving within them that is, the granules disappeared in one part of the corpuscle, and became visible in another. This was repeated several times during the observation, apparently from the working (" writhing") or undulation of a fluid, which, by alternately dividing and coalescing, and then again dividing, formed the granules, which were sometimes vissble at one spot, and then at another. The author has seen similar phenomena in the inner vesicle of growing larger, or by exhaling, shrivelling, the red corpuscles after the addition of a drop and becoming less. In fact, all abnormal proseen similar phenomena in the inner vesicle of

brine does not form globules or corpuscles of of gum water.—A little water was now added ducts are effusions, and not secretions.—The to the corpuscles from the point of a lancet; after a few minutes the shrivelled corpuscles became quite plump. Liquor potassæ was afterwards added very cautiously in the same way, and the corpuscles, one after another, dehisced. At first they gave a sudden jerk, and enlarged to twice or three times their former dimensions, displaying the granutes in their interior; and then they burst open by a kind of explosion, each corpusele discharging about twelve large granules, which were gradually dissolved - Case of troublesome cutarrh (hayferer.) I opious discharge of clear transparent fluid from the nostrils; a perfectly limpid drop of the mucus was examined by the micro-cope, and I was somewhat surprised to find in it a great number of colourless corpuscles, resembling the colourless corpuseles of the blood, There were, indeed, corpuscles of all sorts, forming a complete series, with gradual transitions, from the colourless blood corpuseles through all the forms and varieties of pus corpuscles, up to large, round, granulated corpuscles and epithelium cylinders. My astonishment was great when I found most of these corpuscles provided with vibratile cilia in the most active state, so that some of the corpuseles were actually moving about by their means; and not only were the cilia in motion, but the molecules and granules in the interior of the corpuscles were in a very active state; they could be seen rapidly shifting their position within the corpuscles.—I examined no less than six different specimens of the mneus from the same individual, and I always saw a series of similar objects - Case of Cancer of the Breast (existing some years.)—Arm cedematons; the back of the hand had been punctured some weeks ago to relieve the swelling, and a serons fluid has been discharged from it ever since. The author frequently examined this fluid by the microscope, and always found in it a fibrinous coagulum, and corpuscles resentbling in every particular the colourless corpus cles of the blood, somewhat altered by shrive]. ling. When the arm was cool and free from pain, the fluid discharged was perfectly limpid, as colourless as spring water, but corpuscles were found in it; and after standing ten or twelve hours, a delicate but almost invisible net-work of fibrine could be drawn out of it with the point of a needle. Sometimes the arm, without any obvious cause, became much more red, swollen, and painful, and then the discharged fluid had the appearance of ordinary serum; the number of corpuseles was much increased, and the coagulum was more dense, On the addition of water the corpuscles swelled out and enlarged; with liquor potassac they burst open, discharging large granules. From the result of this and other experiments, it is evident that the serous fluids effused in dropsies differ from the serum after venesection; they contain fibrine and corpuseles. The fluid at the surface of inflammatory blood is the li quor sauguinis, highly charged with molecules, granules, and colourless corpuscles; it is a strong solution of fibrine. The limpid fluids discharged by ardematous swellings are of a precisely similar nature, with a less quantity of fibrine and a less munter of corpuscles; the varieties of coagulable lyre di arc intermediate between the two extremes. All abnormal discharges, and all the varieties of serum and coagulable lymph, are modifications of the liquor sanguinis - stronger or weaker solutions of fibrine. All the varieties of pus and lymph corpuscles are more or less altered colourless corpuscles aftered either by imbibling and

foregoing experiments (here briefly stated) are brought forward to strengthen the conclusion which it is the author's object to establish, -viz., that all secretions take place in the interior of granulated vesicles or cells, not by transulation from one tube (a bloodyessel) into another (a duet;) consequently that "tubercles in the lungs," "tubercular infiltra-"tubercles in the lungs," "tubercular infiltra-tions," "hepatisation," and "pus," are not secreted products, but simply the elements of the blood effused by an excessive "vital turgescence" (or inflammatory action,) having their peculiar characters determined by the texture and function of the structure, and by the amount of activity of the turgescence.*—A singular fact is stated with regard to the animalenles; it may be witnessed in all of them by the application of liquor potassie (which the author calls his dissecting fluid.) It penetrates the transparent tunic composing the body of the animalcule, by imbibition, and soon causes it to burst open or explode, precisely in the same way as the colourless blood or pus corpuscle: and the so-called stomachs of the creature are forcibly discharged, or thrown out one after another, thus becoming objects for minute mi-croscopical scrutiny. The stomachs (?) swell and burst in like manner, precisely as the granules discharged from the lymph corpuscles of the frog, or from the pus corpuscle. These stomachs the author believes to be granulated vesicles, performing their functions by imbi-bition, and not by assimilating or digesting food voluntarily taken. The vital powers of the animalcules are totally ideflicient in opposing the imbition of the poison, and their stomachs may be seen enlarging in the interior of the body prior to the rupture of the integument,

THE ARDOMINAL AORTA TIED.—The following statement is derived by a correspondent from an article in the Journal de Commercio, August 7, 1842: - On Friday, July 5th, at No. 13, Rua das Violas, the abdominal aorta was tied, for the first time amongst us, immediately above its bifurcation, without doubt the boldest operation in surgery, and carried into effect in England only by Astley Cooper and James, without any favourable result. Nevertheless, the patient, A. M. Cardozo, seemed to be overcoming the terrible consequences that it was supposed would follow. The operator, was Dr. Candido Borges Monteiro. For about a week after the operation the patient was seemingly getting better, but they could not consider him out of danger for at least twenty days,"-not to live, however, for he died on (1 think) the 15th. The body was taken next day to the School of Medicine, and examined by the operator, in presence of a number of medical men, when they found that everything had been rightly performed, the case only affording another proof that the result must necessarily be fatal.

MEDICAL NEWS.

THE NUMERICAL METHOD. -M. Tronssean. in his recent public "Discours," thus speaks of this system:—"The numerical method, which has for its base, statistics, and which was first introduced into 'Hygiène' by Parent du Chatelet, was applied to the study of pathology and therapeuties by a man equal to all praises. It recognizes the absolute power of figuers. The physician must impose silence on the imagination: he analyses, counts, and registers ii-

* The author refers to Mr. Goodsir's paper, and

willy results, he does no more, no less. applies to medicine the doctrine of probabilities in all its rigour. I make this no matter of reproach; for we cannot systematize without counting-but I do reproach it that it only counts, that it counts too much, too long -and ever-and excludes all mind in things. It is the sconrge of intelligence: it makes a physician a counting clerk. Its boast, the exclusion of the intellectual faculties, is its condemnation." He goes on to remark, that in effect the numerical system is but the system usually followed, decked out with a parade of figures instead of terms equally expressive (ev. gr. 90 in 100, instead of the old term "almost always," Ne.), that the observations are all conflicting, varying in different places with every observer, and considers that its principal utility are the habits of exactitude it encourages.

A HARMLESS Specific.—An old physician is now living in Paris, who unlucky in practice, set about establishing a patent medicine. Restrained somewhat, if not by a sense of decency, by one of morality, he determined on using a remedy which, if it did no good, should at least do no harm-and therefore fixed on "distilled water," which, under a grand name, was duly puffed; and became a medicine of very general requisition for an infinite variety of maladies. The certificates that poured in upon the surprised inventor, were beyond number, and spoke of cures the most marvellous, performed in the most marvellously short time. But the greatest wonder of all was, the revolution produced in the physician's own opinion; for after making an ample fortune by the medicine, he continues to sell it (after the need that led to its introduction is gone) in a conscientions belief that it is in truth a sovereign remedy, the salts and other foreign principles in the water in common usage, being now thoroughly believed by him to be the source of two-thirds of chronic maladies. M. Troussean, who relates this anecdote, deduces from it a lesson of greater reliance on the curative powers of nature, especially when untampered with, instauating with the satirist, that our business in general is but to amuse the patient, while we allow nature to cure him.

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TO MEDICAL PRACTITIONERS—To meet the convolume of these Practitioner, who I wing to the connection with the Poor I in Unions or ofter reasons) are do irons of epolitical Lock, large their incoming themselved with the view of defining the diplome of the Rock College of Surgeons, also for the accommodation of senior purple, Mr. Bermut receives goodlenged into the Hort better month. Abort diversity of the Mr. States of the Mr. Gather's lifet to Dr. Hasteres, also Dr. Hasteres's continuators reply, Mr. Ret view Continuators (Christophila Mr. Dr. Ret view). Contract Christian Mr. Dr. and Chri

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A Journal of English and Foreign Medicine and Medical Affairs

No. 168. Vol. VII.

LONDON, SATURDAY, DECEMBER 10, 1842.

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LECTURES ON CHEMISTRY.

By JOHN SCOFFERN, M.D., Lecturer on Chemistry, at the Aldersgate School of Medicine.

I PURPOSE in this lecture, examining some of the important relations which obtain between the three agents, heat, electricity, and magnetism.—This is a subject of intense and still increasing interest, but its connexion with the science of chemistry is not sufficiently intimate to warrant our devoting more than one lecture to its consideration. Let us begin by examining the connexion which exists between electricity and heat,-whence has arisen

the term "therma electricity."

If a ring of any metal of equal size, and homogeneous composition, be heated at one particular point, no disturbance of electric equilibrium takes place; but if its size be not equal in every part, or if previously to its formation into a ring, a knot had been made on any part of its future circumference, then electricity would have circulated from the point heated to that part where there might exist the least amount of obstruction. If instead of employing one metal with this knot or enlargement, two metals be employed, electric disturbance, under the same circumstances of heating, again results, and in proportion as the molecular constitution of the metals vary, so does the intensity of the results increase. Now, as a general rule, the molecular constitution of metals is such that they crystallize in the cubic or tessular system; antimony, however, crystallizes in rhombohedrons, and hence is capable of forming a thermoelectric combined with almost any other metal ;bismuth being generally preferred. In order to form a thermo-electric combination the two metals must be soldered together at one end, and in order to develop the usual results, heat must be applied at their point of juncture, when electricity will be determined from the antimony towards the bis-

Such a thermo-electric apparatus as I have described is far too devoid of power for the develop-ment of any brilliantly marked results, but the ingennity of Nobili devised a compound instrument which stands in the same relation to the simplo one that the pile of Volta did to the powerless instrument of Galvani. The instrument to which I allude, consists of several combinations of antimony and bismuth, instead of one of the metals, being soldered together at opposite extremities, and separated from each other by some insulating materials, (I believe in practice, the substance employed is plaister of Paris,) the minute interstices of which are filled with melted lac. Without going more into detail relative to this or other thermoelectric combinations, suffice it to remark, that when heated at the points where the two metals join, there is set up an electric current, which yields under proper conditions a spark and other results, fully establishing its identity with electricity from other sources.

A slight examination of these facts cannot fail to enlarge our ideas of natural electrical excitation. We know that the crust of this planet is composed of numerous materials placed in opposition with different, and distinct from one another. The op- magnet under the wire, and parallel to it; tell

each other, and granting that any source of heat be applied in any unchanging direction—there will be generated a current of elasticity unchanging in its direction too. From this it would not be nnreasonable to suppose, à priori, that, inasmuch as the earth is heated in the direction of east to west by the Sun's rays, that an electric current is also set up in that direction ;-that such is the case, is in accordance with observation and experiment, as we shall presently see. I wish to impress this most firmly in your minds, inasmuch as it is intimately connected with Ampère's theory of terrestrial magnetism. With this passing notice, I must dismiss this subject to enter upon the consideration of electricity and magnetism, as regards their mutual relations to each other.

The early electrical experimenters were struck with the similiarity which obtained between some of the effects of their agent, and those of magnetism: indeed, the first detailed account of electrical attraction and repulsion, was given in a treatise on magnetism; and a kind of vague idea soon after became prevalent, that the electric attractions and repulsions were identical, although experiment failed to afford the necessary demonstration. It is a very well known fact, that tlashes of lightning have, on several occasions, produced variation in the magnetic direction. Several authentic instances of this effect are on record; for example—it is related in the Philosophical Transactions, Vol. XIV., p. 520, that the ship Alexander, when in lat 48 deg, encountered a violent thunder storm. The mast was struck by fightning, which also reversed the poles of all the compasses in the ship; -a change which was not discovered until the ensuing night, when the stars appeared, and it was found that they had been steering in an opposite course to which they intended. It is also stated, that in one of the compasses the end which had before pointed to the north now pointed to the west. Again, another instance is mentioned of a flash of lightning having passed through a box containing a great quantity of knives and forks, melting some, and scattering the rest about the room; those which remained were converted into powerful magnets. In imitation of these phenomena, strong shocks were passed through steel and iron bars, by means of electrical batteries, by which treatment, magnetic effects were certainly produced; but the results were so capricious and irregular, so little under the operator's control, or in accordance with known laws, that they led to no useful deduction.

D'Alebard imagined that electric currents imparted northern magnetic polarity where they entered, and southern polarity where they left an iron bar; and this result was presumed to be quite independent of the needle's position, with regard to the magnetic poles of the earth. Wilke, on the contrary, imagined that he could trace a connection between northern polarity and the place where the electricity left; thus you will see how little, up to this period, were the opinions of experi-

menters in accordance.

In the year 1774 the following question was proposed by the Electoral Academy of Bavaria, as the subject of a prize dissertation. Is there a real and physical analogy between electrical and magnetic forces? and, if such an analogy exist, in what manner do these forces act upon the animal body? The essays received on that occasion were collected, and published ten years afterwards by Professor Van Swindon, of Francker, the author of one of the essays, for which the prizes were awarded. The conclusion to which he arrived after a long and elaborate discussion on the subject was, that the similarity between electricity and magnetism amounts merely to an apparent resemblance, and does not constitute a true physical analogy; whence he infers that these two powers are essentially

posite opinion, on the other hand, was maintained by Professors Steiglelmer and Hubner, both of whom contended, that so close an analogy as that exhibited by these two classes of phenomena indicated the effects of a single agent. About the year 1777, the celebrated Beccaria engaged in a similar investigation, and although he, like his predecessors, failed in discovering the true nature of electro-magnetic influence, he observed that a needle through which an electric discharge had been sent, acquired a curious species of polarity, not turning north and south, but east and west, However, he did not follow up the train of inquiry indicated by this important fact. As philosophers had hitherto operated insuccessfully with concentrated electricity, there were some who occupied themselves with this agent in a more tranquil form ; still, however, without success. Magnetic needles when charged with electricity were found to have the same influence on each other as when uncharged, hence it seemed that quiescent electricity, at least, was totally unconnected with the magnetic agent. The result of these experi-ments was, to diminish the belief in the identity of the two agents. True it is, argued philosophers, that violent discharges of electricity have generated magnetic properties, but their agency is most probably incchanical, and therefore, analogous to the effects of a smart blow, which, when applied to an iron bar in a particular direction—is known to develop magnetism.

When the disc. - ry was made of eliminating electricity by means of voltaic arrangements, philosoplars' were enabled to prosecute their electro-magnetic experiments under a new aspect, and then some advances were made towards a solution of the mystery. Ritter asserted, that a needle composed of silver and zine, arranged itself in the magnetic meridian, and had been slightly attracted and repelled, by the pole of a magnet. He also stated, that, by placing a gold coin in the voltaic circuit, he had succeeded in giving it positive and negative electrical poles; and that the polarity so communicated was retained by the gold after it had been in contact with other metals, and appeared, therefore, to partake of the nature of magnetism. These experiments caused their author to entertain some vague idea that electrical combinations, when not exhibiting their electrical tension, were in a magnetic state; and that there existed a kind of electro-magnetic meridian, depending upon the electricity of the earth at right angles to the magnetic poles. Amidst much that is incorrect in the account just mentioned, it is yet evident that Ritter just discovered the first indications of true electro-magnetic influence; but in this state he left the subject, and so it remained until the discoveries of Professor Œrsted, in the year 1813. During his speculations on the subject, this philosopher was led to believe that, if galvanism were a form of electricity more latent than that from the machine, so magnetism might be nothing more than electricity in a still more latent form. I confess it is difficult to understand the tendency of this reasoning, but, at all events, it directed (Ersted to his brilliant discovery, of the mutual influence of electric currents, and magnets placed in the vicinity of each other. I do not know anything more difficult to describe than the direction of magnetic disturbance, under those conditions, although no experiments are so easily performed, nor, when performed, so easily remembered. A voltale arrangement of one pair of four or five-inch plates is all the power required; and in order to prepare it for our electro-magnetie experiments, nothing more is necessary than to connect its two virtual extremities by a wire. This being done, we place a magnetic needle in various postures, with respect to this wire, and notice its various deflections. First, I place the

north pole of the magnet being towards that end of the battery from which the electricity comes,immediately you observe the north pole of this magnet mrns to the right, until the whole magnet stands pretty nearly at right angles to the communicating wire. By altering the original position of the magnetic poles with relation to the current, a contrary result takes place, as also occurs when the magnet is held above, instead of balone the rein. It instead of making the right of below, the wire. If, instead of making the whole needle parallel to the conducting wire, only one pole be caused to approach them, it will be either attracted or repelled, according to the direction in which the current flows along, or to the pole which is approximated. It is difficult to view these experiments without imagining the conducting wire to be, so long as it transmits electricity, actually a magnet, and therefore necessarily affecting another magnet, according to the well known laws, that opposite magnetic poles are mutually attractive, and vice versa. Now this, in reality, seems to be the case; for if I apply to the conducting wire, thus circumstanced, a few iron filings, the latter adhere. This fact, I believe, was first casually noticed by Sir H. Davy. In order to number easily the position in which a magnetic needle would be deflected by an electric current influencing it in any given direction, it is usual to avail ourselves of the following memoria technica, suggested first, I believe, by M. Ampère. Imagine that your own body transmits the influencing electric current; that the latter enters at your head, and proceeds towards your feet, and that, moreover, you hold in your hands in front of you a magnetic needle, with its north pole pointing to your head :- under these circumstances the magnct will arrange itself transversely to your body, with its north pole towards your right hand. The simple experiments just shown you, are in reality all that are actually requisite for illustrating the first principles of electro-magnetic agency. motions which can be affected by means of this force are exceedingly complex a d numerous, but they cannot be said to fall under the dominion of chemistry. It must be evident that, before a magnetic needle can be affected by a current of electricity, it must overcome its natural directive tendency. Hence, for delicate experiments, a magnetic needle used thus is usually rendered devoid of all or very nearly all directive tendency whatsoever, by mounting it on a pivot in association with another needle whose poles are in opposite directions to its own. Magnetic needles thus arranged, are termed astatice. If, instead of transmitting the electric current through one wire. many be employed.—or, what amounts to the same thing, if one wire be bent into several coils,-a magnetic weedle freely suspended in the centre of such a coil will be deflected in proportion to the number of revolutions made by the wire. An instrument, such as this, is called a galvanometerperhaps the term galvanoscope would be more appropriate. Within a certain limit (about 30 deg.) the angle of deflection is directly proportionate to the quantity of electricity which passes; beyond this, the connexion between the two follow a more complicated law, which does not full within the province of any lecturer to demonstrate,

We next have to settle the question, if possible, why electric currents deflect a magnetic needle in the peculiar way fir t indicated? Nothing can seem more anomalous at first sight than the direction in which an electric current acts upon a magnetic needle: a direction which appears to be at right angles to the force applied; but more attentive observation leads us continually to suppose, that electricity, under many circumstances, traverses bodies in a helical direction, although it appears to go straight on. We are led, moreover, to believe, that all bodies thus traversed by electricity are magnets, and that the natural loadstone or magnet, so called from Magnesia, where it is found has such currents of electricity naturally eirculating in it. Every experiment which we can devise with the view of settling this question seems to do so in the affirmative. The first I shall point out to you is the following.—I take a helix of copper wires, and place within it a common sewing needle, folded in paper; now I pass several discharges of a Leyden jar through this helix, and on taking

of a magnetic needle indifferently; hence it must be itself a magnet.

If instead of machine electricity, I employ that emanating from a voltaic battery, and pass it through an insulated helical wire surrounding a piece of soft iron bent in the form of a horse-shoe, the latter becomes a magnet of most enormous power. It is remarkable that soft iron easily asumes this power, but loses it again immediately that communication is broken with the battery whereas steel, although assuming it more tardily, becomes an instrument of great permanency.

In order to bear out the theory of magnetism, which we have been just discussing, not only should magnetism be capable of development by electricity made to circulate in a helix, but by reversing completely the conditions, we should expect that electricity would be capable of development from a permanent magnet. Such, indeed, is the case, every time the armature of a horse-shoe magnet is approximated to it, or removed from it, a current of electricity is set up, and by using Saxton's magneto-electric machine, which consists of a strong horse-shoe magnet, before the poles of which an armature revolves with great rapidity, there may be developed electricity capable of generating all the most usual effects of this agent. You will see, then, that the term magneto-cleetricity is just the converse of electro-magnetism,

I will conclude this very interesting subject by drawing your attention to Ampère's beautiful theory of terrestrial magnetism. Why the magnetic needle pointed north and south, was a problem which philosophers long endeavoured to solve in vain. At present, we have at least a rational answer to this question. It has been demonstrated that heat will generate electricity, and it follows, from the known principles of electro-magnetism, that if a current of electricity is made to set up around our globe, at the equator, the earth must necessarily become magnetic direction of north and south, and must influence the direction of all other magnets on its surface, preording to the usual law that opposite pole attract each other. Does then such an electric current exist? We believe there does, and that it is produced by the earth being heated in the direction of east to west, by the and rays. It has been determined, however, that there does not exist a single north magnetic pole, but that there are two, one in Siberia, and the other in North Am rica—consequently, there must be two magnetic south poles as well, although their position has never been determined. These poles, or centres of force, are, however, not fixed; the needle continually change: its direction. At present it points to 213 west of north; but, in the year 1064, it pointed to the north-it previously pointed west, and is now returning to the same direction. Why there are two poles, or centres of force, in each hemisphere, we cannot determine; it is clear that only one should be produced by means of the thermo-electric effects of the sun, but many other sources of electricity, of which we know nothing, may exist: the directions of the secondary currents, thus produced, may be variou, and the varying position of the magnetic poles may be nothing more than the changing resultants of two or more forces, not always possessing the same amount of intensity.

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COURSE OF LECTURES ON THE THEORY AND PRACTICE OF MEDICINE.

Delivered by C. J. B. WILLIAMS, M.D., F.R.S., Pofessor of the Plantice of Medicine, and of Clinical Medicine, at University

GENTLEMEN,-We see the effects produced by the existence of pus in the circulation in cases of what is termed suppurative phlebitis. The symptoms therein occurring are, great prostration, brown dry tongue, thirst, faintness, hiccough, delirium, quick feeble pulse, and an anxious expression of countenance, together with other indications of a typhoid state. When pus is thus absorbed, or otherwise conveyed into the circulation, it excites other parts to inflammation, having a tendency to suppurate, and hence deposits of pus are found in various organs of the body-these formations occurring as a result of previous suppuration, are called secondary or metastatic abscesses. It is stated, that pus globules are found not only in the blood, but that they have also been detected in the centre of coagula. Gulliver says decidedly, that it is disintegrated fibrin that exists in the centre of coagula, and certainly not true Traces of lymph are frequently found deposited with purulent matter. There are many points connected with the origin of purulent formations that it is quite out of my province to enter upon, seeing that they belong to the chair of pathological anatomy. So long as pus can escape freely, little serious mischief may result; but it is, when it is confined and cannot get vent, that constitutional fever and irritation are produced; much will depend of course upon the situation in which matter forms, whether it is likely to be followed by serious consequences. Abscesses in the brain are, I believe, uniformly fatal. As a general rule, the more deeply scated an abscess is, the more dangerous it becomes. Even when pus is superficial, and can easily escape, yet, it its formation is extensive, it leads to great emaciation and hectic fever, which is characterised by flushed face, quick feeble pulse, partial heats occurring at intervals, alternated with chillness. The heat is felt chiefly in the soles of the feet and palms of the hands; because in these situations the onticle is, as you know, remarkably thick, so that evaporation is prevented, and consequently the temperature continues high. The peculiar appearance of the face in hectic fever, constituting the hectic flush, at once indicates the nature of the affection to the experienced eye. The body becomes gradually wasted; the enactation is sometimes extreme; there may also be much depression; patches of ulcera-tion in the form of thin detached films frequently are present in the mouth, constituting aphthie; the urine contains a peculiar pinkish deposit. Towards the fatal termination of the disease, colliquative discharges very commonly supervene, such as vomiting, perspirations, and diarrhora; these, as you may suppose, rapidly debilitate the patient, and soon bring his existence to a close. Heetic fever is said by some always to depend upon the presence of pas; but, if this were the case, it would evidently be found only where pus was

discoverable, - and yet it is observed, in some diseases, such as diabetes mellitus, &c., where there is no pus. Although there is no pus, there may be some other poison in the system to cause the symptoms. It is in the young and irritable that heetic is principally noticed. Although pus is undoubtedly noxious in its effects, it is not so bad as gangrene. It seems to have a great tendency to run into putridity, and give rise to the disengagement of sulphuretted hydrogen; still there are instances of pus remaining in a good condition for a very considerable length of time when excluded from the air. Rigors occurring during inflammation, are pretty conclusive of suppuration taking place, except in diseases of the urinary organs. In diffused suppuration rigors, too, are often absent. Supportation is frequently beneficial, especially in mucous membranes, as in cases of bronchitis—it tends to remove the thickening—but even from a mucous surface the dis-charge of pus will, if long continued give rise to hectic symptoms. We have now passed in review as results of inflammation, the occurrence of effusion, softening, adhesion, induration, ulceration, and suppuration, and the last I have to mention is The symptoms of this termination will gangrene. The symptoms of this termination win depend, to a very great extent, upon the strength of the constitution and the vascular process-if the subject is strong, the irritative fever may continue high, and no depression occur: the vascular action defends the system from the influence of the poison and keeps up the fever. But generally there is depression present, and relief from pain on the supervention of gangrene; the tongue becomes brown and dry; the breath purid; pulse feeble; countenance collapsed, and features tremulous: cold fetid sweats and low delirium, with hiccough, occur, and death speedily follows. Externally, there is a characteristic putrid odour. It is recognized in the intestines by the factor of the alvine exerctions. In phthisis, there is often a very feetid odour communicated by the breath and expectoration; it may also arise in bronchitis. The gangrenous smell is very much like that of the dissectingroom. It is especially liable to occur in dilated bronchi, because the matter becomes lodged in them, and is there decomposed. A very fetid odour often arises from lymph decomposing on the fances. Thus we see that very putrid odours may arise from decomposition of secretions, and does not necessarily indicate any actual sloughing of the tissues. There is no very absolute line of demarcation between pus and gangrene. We saw that lymph and pus may be mixed, forming purulent lymph, so as not to be clearly distinguishable from each other; and so, too, may gangrene and pus he mixed. Pus may be almost gangrenous. A gangrenous abscess presents a most lamentable condition.

We have now to consider a few of the principal divisions of inflammation. The chief of these is the sthenic, in which the power of the heart and vessels is active and remarkable; it is also characterized by an inflammatory condition of the blood itself, as indicated by its containing a Jarge quantity of fibrin. The tension of the arteries is great, and the fever high. This sthenic form is also acute. In the asthenic form, the inflammation is not backed by much vascular activity; and the blood is not nearly so rich and fibrinous. A variety of inflammation is described, by Cullen, as phleginonous; but this is not a distinct species. It is seen in cellular and compound textures, where it is circumscribed by effusion of lymph, and may tend to suppuration. The inflammation is not diffused, but this fact depends rather upon the tissue than upon any thing specific in the nature of the inflammation itself. The inflammatory fever itself is generally high. Another kind of inflammation, and one that appears to be just the opposite of the former one, is the crythematic, or crysipolatons, which is specific in its tendency to spread in all textures. It leads to the effusion of serum, with little lymph, so that circumscription is not effected. The citision takes place frequently under the cutiele, forming vesications and ædema. The fever that accompanies this inflammation is often of the typhoid type, and not uncommonly precides the inflammation. In addition to the pro-tration, delirium, dry tongue, "&e., there is

unusual disorder in the secretions. The symptoms appear to be out of proportion to the amount of inflammatory action, so that we must conclude there is something specific in the constitutional state. Erysipelatous inflammation has a tendency to attack the peritoneum in puerperal fever; to attack the periodeal in photography women are specially liable to purporal fever at the time that crysipelas is prevalent. The kryux is particularly subject to crysipelas. This inflammation often follows external injuries. It frequently prevails epidemically, and may, unquestionably, be propagated by contagion,-it is, in fact, a poison. It is apt to occur chiefly in bad situations, and attacks most commonly the surface, It may attack mucous membranes, as in the fances, Xe. It sometimes affects the perieranium, and sometimes serous membranes. The effusion produced by this kind of inflammation is more liquid than usual; the lymph is curdy and shreddy. There is sometimes a film secreted over the ulcerations, which decomposes readily, and exhales a fetid odom. This form of inflammation is called dintheritie.

Another species of inflammation is the *rheumitiv* ad gouty. This is derived from the condition of and gouty. This is derived from the condition of the blood. It does not tend to supparation, but to the efficient of serum into the joints. In the peri-cardium, lymph is efficied. The blood is very baffy, the urine scanty and high-coloured, and the perspiration weid. It generally occurs in liabits previously diseased, and is remarkable for its tendency to move or shift about from one part to another. It chiefly affects fibrous tissues, as tendons, fascie, the pericardium, dura mater, &c. It depends upon some materies morbi in the system, or, as is generally admitted, upon lactic acid in excess. Gonty inflammation attacks more particularly the smaller joints. It is almost invariably associated with a deranged condition of the stomach, and very frequently with gravel in the urine. If the discuse exists long, there is a peculiar deposit noticed in the joints consisting of lithic acid and soda. It is most common in plethoric subjects. Another variety of inflammation is the syphilitic, which depends clearly upon the presence of a specitic poison in the blood; it attacks various parts of the body, especially the skin, periosteum, the bones, the eye, and the lymphatic glands. In the skin it tends to suppuration-in the periosteum to exostosis-in the iris to the effusion of lymph-in the mucous membrane of the eye and urethra pus is formed. The last species of inflammation that we shall notice is a very important one, viz., the scrafulous. Its effects are chiefly manifested in the lymphatic glands. In ordinary inflammation there is much heat and pain experi need, but in scroftflous cases the pain is generally slight and also the heat—the redness is rather lurid. There is a remarka-—the reduces is rather firid. There is a remarked bly slow tendency to termination, so that the di-sease is very tedious; it leads to hypertrophy of the glands. The pus that results in scrofula, or in other words "scrofulous pus," has a peculiar curdy or cheesy character that is readily distinguished: it is more serous than ordinary pus. The abscesses that arise have little disposition to heal, and are prone to insinuate into the cellular tissue. Another peculiarity of this inflammation is that the usual anti-phlogistic remedies are productive of little or no benefit. There are several signs by which the scrofulous diathesis is easily recognised, such as general relaxation of the solids-transparent skin appearing soft and fine, and shewing the veins very distinctly under it—the countenance is pale with circumscribed livid patches-the eyes have a pearly aspect—the hair is generally fair, frequently reddish—the upper lip is remarkably tunid—the glands have a special liability to enlargement. In scrofulous subjects, morcover, there is often precocity of intellect, wounds are caused to heal with difficulty, the joints frequently become swollen, the skin is dry and hard, or else it is soft and clammy. The synovial membranes of joints are very subject to disease, also the cartillars a professional synovial membranes. tilages, especially ulceration of the nasal cartilages, also tuberculous disease in all its forms. It is quite evident that scrofula is a disease of the nutritive secretion. The causes of servilla are debilitating influences long continued. H is nodoubtedly hereditary. The children of old or

gonty and dyspeptic parents are specially subject to scrofula. It may be excited by poor food, cold and wet, confinement in impure air. It is exhibited most commonly in winter and spring, particularly after fevers and long illnesses. Patients who suffer from it, experience relief and improvement during the summer months. Scrofula gives a tendency to chronic inflammations. It does not exist in the same form in warm climates as in cold-in the lot climates the liver is the chief sufferer. The predisposition is exhibited in people coming from hot climates to cold. It much modifies acete inflammations and lowers the vitality of the products of inflammation, for if lymph is effused, it is not organised at all, or else only in a low degree; it is not assimilated to the tissue in which it is secreted, but gives rise to chronic induration tending to ulceration; it may be quite aplastic forming empyona. The matter of scrofulons abscess differs from ordinary pus; the glo-bules of the fermer are granular, and not vesicular, ns those of pus. Scrofula depends upon some diseased condition of the blood, or of the assimilative functions.

CYNANCHE MALIGNA. BEACOUNTRY PRACTIFIONER.

INFLAMMATION of the tongue, the uvula, and soft palate, the fances or tonsils, when of the ordinary sind, or what is called common inflammation, although attended by local symptoms sometimes of a very distressing character,-pain in swallowing, feeling of fullness in the throat, accompanied with choaking sensations and laboured respiration, at the same time, considerable febrile disturbance, frequent and full pulse, furred tongue, headache, &c.,—is not, generally speaking, to be regarded as an alarming or dangerous complaint. The object of this paper, however, is to contrast the above forms of disease with other maladies attacking the same parts, different in their nature, and more to be feared as to their results; although at their commencement, they have occasionally characteristics so much in common with the affections of the first class, that the young or incautious practitioner is occasionally betrayed by a deceptive similarity, if not into the adoption of an erroneous treatment, at least into the giving to friends of that which turns out to be an unguarded or incorrect opinion. In towns, where the population stands thick on the ground, and where incdical practitioners at any given time have every facility of knowing whether or no epidemics exist in the neighbourhood, it is not only comparatively easy to know of their existence, but also to make ourselves more or less acquainted with their nature; but in country places, where the inhabitants are thinly strewed, small in number, over a great extent of surface, the medical attendant cannot generally be so well informed respecting the extent or nature of epidemic forms of disease which may now and then prevail,—so that on his first being called to an isolated case, or one which, in the commencement, appears so, from the fact of its being the first he observes of that which afterwards becomes a series-a complaint which might justly be called malignant-is regarded as the commencement of a benign and curable affection; whence some occasienal mistakes we make in prognoses, which although they may have had little to do with modiffications of treatment, are all important as regards the expectations, confidence, and opinions of friends It is especially with a view to throat affections, and to the differences between the common and curable, and the specific, epidemie, or contagious, that the following remarks are put together, without any attempt at method, merely for the sake of the practical utility which they may probably be allowed to possess.

Although the term malignant sore throat is so commonly employed by English practitioners, its propriety has been called in question; in like manner another term often used by French writers, to qualify the same kind of disease, viz. asthenique, has been regarded by some recent writers on the subject, as essentially incorrect, inasmuch as it is said to be contrary to reason and sound physiology, that the same inflammation, that the same pseudiar formation of false menularane, such as in the zare 4804.

lines the throat affected, should in one case be the result of weakness and in another of strength, on the one hand associated with an exaltation of vital energy, on the other connected with its depression. The term sthenique, being the apposite, employed in speaking of that form of the malady distinguished more by symptoms of common inflammatory action; perhaps of the terms malignant and asthenique, the former is the better of the two, by virue of its more popular and less scientific character; it commits the practitioner to no peculiar opinion, as he is not often asked the difference between the malignant and the benign. Many diseases are known to affect very differently different constitutions; and it appears to me that the progress, duration, and termination of throat affections, are influenced as much by peculiarities of individual constitution, as they are by peculiarities of disease, or morbid action, yet as there is a difference between the synocha of Cullen, and the typhus gravior of the same author, so certainly is there a difference between the attack, progress, and symptoms, of common sore throat, inflammation of the tonsils, palate, &c., and those of cynanche maligna, which has the same anatomical locality: for in the former case we have to combat an active inflammation, by active untiphlogistic means, attempting to procure termination by resolution, opening alcress early it it occur; in the latter, where one characteristic of the symptoms is what might fairly be called typhoid, (if here we might be allowed to except the stmor) the tonic and antiseptic treatment must never be lost sight of, while to abstract blood, in many cases, might even prove fatal, and the practising of counter-irritation in the immediate neighbourhood of the parts affected, is not always unattended with danger.

In one fatal case which came recently under my notice, in a young lady, aged eleven, the threat affection was at first of so simple a character, that it was regarded as a case of ordinary quinsy, and during the first four days of its progress, no symptoms appeared, sufficient to make the practitioner from the first in attendance, in the least apprehensive with regard to the results. After this period, the change in the general aspect, and in the breathing, was so obvious that the friends became auxious for the safety of the child, for by this time the false membrane lining the fances, and thickly covering the tonsils, had all the appearances that characterize the worst cases of cynanche maligna; the breath became exceedingly fortid, the pulse very frequent and small, the respiration gradually more and more oppressed, till the fatal termination took place on the fifth day of the attack. instance it would seem, from all we could learn of the nature of the early symptoms and progress, there must have been some difficulty at the onset in establishing a correct diagnosis, and this more especially before the peculiar coating given by the disease to the tonsils and neighbouring parts, had been carefully observed; for after the ash coloured and spotted aspect of the throat, so characteristic of evnanche maligna, was observed, and this, in connection with the peculiar fatid breath, the frequent and very small pulse, and the general prostration of strength, the complaint could no longer be regarded as ordinary quinsy, nor could it be supposed capable of relief by the treatment which suffices in common inflammation of the tonsils and palate. M. Dupuytren directed his attention some time ago to the treatment of the severe forms of cynanche maligna, and has recommended the emplayment of the " chloro-sodaic solution" of Labamaque in gargles, a practice also adopted by Guersent. Roche, and Sanson, who have reported favourably of its effects. To such treatment, in adults, the inhalation of oxygen gas might be added, and where the sitting up to inhale this gas is attended with difficulty, or where we are not furni had with the necessary apparatus, we may substitute the following method, recommended by Thomas: "Cause the windows and doors of the pritient's apartment to be closed, and then, taking a chatting dish with some five coals, throw into it half an onnec of purified nitre in powder, which will till the room with a thick white cloud that will continue for a considerable time. This process ought frequently to be repeated in the course of the day." We are recommended by some practitioners to take great

care in preventing any part of the secretion or false membrane formed on the fauces from passing down the resophagus into the stomach; and this precaution appears more especially necessary in children of feeble constitution, for the gastric irritation which might thus be set up, would be in such cases a grave addition to an already serions complaint. When the matter in question is loose enough to be removed; this may be done by a little fine soft sponge, tied to the end of the strong handle of a camel's hair pencil, or to the end of a common black-lead pencil, at the other end of which may be attached another portion of sponge, with which any stimulant or other application may be carried to the denuded surface of the throat, and its healing in this way favoured; the patient at the same time, if sufficiently old and intelligent, being recommended to make occasional efforts to expelloose shreds of this formation by the month. If we have reason to think that any distribunce of the bowels, -griping, purging, &c., which may occur, is caused in the manner now alluded to, we had better not employ astringents to stop it, but instead, an occasional small dose of easter oil, to which, for the sake of allaying irritation, a few drops of laudammi may be added. At the commencement of the attack, having attended to the state of the howels, we find that some degree of benefit generally follows the action of sudorities, which, however, in most cases, are only admissible in the early stages of the complaint, for a treatment by diffusible stimuli is often indicated. within the course of the first three or four days, when mixtures containing amnonia or aether, more or less, according to circumstances, will come to our aid in such cases as are distinguished by the aspect of great debility. In short, this view may be safely taken of the malady as it affects different constitutions, that in some there being sufficient strength to begin with, reaction on the system takes place, the pulse becomes moderately full, and the kin warm, with occasionally more or less head-ache, symptoms of inflammatory fever prevailing; in others, instead of this reaction, which declares itself chiefly in the state of the heart and circulating system, of which the bulse is taken as a principal index, the powers of the system are overcome by the energy of the disease, and reaction does not take place, but gradually an aspect of debility supervenes, the pulse is frequent and small, the patient lies prostrated by the complaint, and it is with pain and difficulty that the ordinary efforts are made for the employment of remedies, a state which is sometimes called typhoid here taking the place of that which has been designated inflammatory fever in the other instance; now the difficulty is to distinguish well between these conditions, and to establish such distinction at the earliest possible period, inasmuch as the treatment must be influenced more or less by the balance of indications, which will differ considerably, as for as the remedies to be employed are concerned, as they belong to one or the other of the states, to which we now allude. It is to be recollected that the former set of symptoms are generally tavorable, and that the latter are the opposite, so that great care should be taken that we do not by any part of the treatment, favour at all the occurrence of the latter condition, for this may easily be done, and it has occasionally happened that during the prevalence of the first state, blood in too great a quantity has been inenutiously abstracted, when unexpected debility and the socalled typhoid state have followed, so that if by beeches in considerable number, or by other modes of letting blood from the throat, we reduce the patient too much, the chances of recovery, which might otherwise have been afforded by the strength which he possessed at the beginning, will be reduced in the same ratio as the power of the constitution, and we shall have to regret the loss of a sheet anchor, which no art can restore or bring back. In eases, therefore, of cynanche maligna, or in any milder form of throat affection likely to end in it, the practitioner will have to watch diligently at the bed-side of the patient if he wish to mark the distinctions we have noticed, or to vary hitreatment in accordance with the progress of the

A French unther speaking of the morbid ap-

pearances found on dissection in these cases, remarks, that no traces of gangrene are to be met with, only the vestiges of inflammation, and that nothing but an erroneous notion has led to the adoption for this complaint, of the term of " angine gangreneuse." We cannot, however, understand this objection to the term gangrenous as applied to many cases of this disease, for not only do we meet with vestiges of grangrene after death, but even during life the progress of the gangrene is in many instances only too apparent. We have seen several cases where gangrene commencing in the throat, has made rapid progress from the mucous membrane towards the skin, destroying most of the intervening structures, along with the mucous and tegumentary tunie; the ravages of this severe form of the complaint are generally such as to destroy life, soon after the gangrene has reached the exterior and the throat has been laid open; to this, however, we meet with interesting exceptions.

A case came under our notice some time ago, where, by the process of gangrene, the carotid sheath was exposed, and the nerves of the neck, as it were, beautifully dissected by the sloughing of the surrounding textures; this case for some days after the separation of the sloughs appeared to be doing well, healthy granulations arising from the exposed surfaces; the child, however, was irritable and exceedingly cross, and the mother, not being a good manager, allowed the patient one day to get into a sort of juvenile rage, and during this a small artery in the neck began to bleed, by which the sufferer was so much reduced as to sink from the effects of the hæ-

morrhage.

We have frequently had opportunities of observing, that in bad cases of cynanche maligna blood-letting is decidedly useless, at the least, if not practised at the very onset of the complaint, and here it should be local—as by leeches behind the ears, or cupping at the back of the neck, and not general, for in this there is often risk of doing harm, as before mentioned. We do better to avoid the application of leeches or blisters to the throat, or in the immediate vicinity of the parts affected; for cases are now and then met with which seem to have escaped from the injury inflicted by the disease in the fances, but which fall a prey to external gaugrene following the application of a blister to the throat itself. On account of the disposition to slough, which the blistered surface not unfrequently takes on, even where more serious consequences do not follow, the blisters on the throat should be avoided, for the scar afterwards left, presents, in many instances, a very hideous aspect, more especially to be dreaded in females.

It appears to be questionable, and matter worthy of consideration, whether in cases of cynanche maligna, where no affection of the skin generally has been observed, it might not be good practice to employ the cold affusion, which has been so much recommended in scarlet fever, where there is great heat of surface, and from which no doubt fever patients often experience very great relief. This might rouse the capillary circulation into vigorous reaction, and if at the same time sinapisms were applied to the feet, to the legs, and ven to the thighs, some derivative effect might be hoped for, more or less likely to relieve the throat and neighbouring parts. With regard to the local treatment at the commencement, I should have no hesitation in applying with a small brush a good strong solution of lunar caustic to the tonsils and neighbouring mucous membrane on either side, with a view of altering the action of the part so much as to give a chance of getting rid of the complaint by resolution; and as I am convinced, from the observation of a considerable number of cases, that in some respects the complaint before us is analogous to carbuncle under the external tunic of the body, I should be disposed to bear in mind always the practice we resort to in many cases of carbuncle,— viz , that of making a way to the exterior for dead portions of cellular membrane, by the crucial incision, &c .aware all the while of the necessity of guarding again t unnecessary loss of blood in every instance of cynanche maligna. This comparison may up peur somewhat strange; carbunele might be said

to occur on any part of the body, eynanche malig: a only in connection with that part of the mucons membrane which lines the throat. We may recollect, however, that the resophagus, as well as other lower parts of the intestinal tube, is occasionally affected in cynanche maligna, shewing that there is at least a tendency to morbid action throughout the extent of the mucous membrane, for indeed the bronchia do not always escape intact.

What carbuncle is then to the skin and cellular membrane beneath it, such is the tumour in cynanche maligna to the mucous membrane and subjacent cellular structure; for the complaint is not especially connected with the tonsils in the same degree that ordinary quinsy is, nor could it with propriety be styled, malignant tonsillitis. There are certain differences, no doubt, as regards the state of body under which the two diseases make their attack, besides which we meet with cynanche maligna, as an epidemic-1 would rather say an endemie; even in this, however, there are certain points of resemblance chiefly to be sought for, as far as carbuncle is concerned, in the history of diseases of some parts of Asia and other warm elimate. There is in many cases, more especially at the onset, a certain resemblance between the affection of the mucous membrane in evuanche maligna, and that of the skin in crysipelas; we will not, however, carry this paper beyond reasonable bounds by constituting further comparisons.

Most of the cases alluded to in this paper were unconnected with any entaneous cruption, not eases of searlet fever with severe affection of the throat, but malignant sore throat alone; the case of the young lady, which terminated fatally, being one of a somewhat numerous group where the disease attacked almost every member of a large family residing in the country, without any known cause, or our being able to trace its approach from the spread of any neighbouring epidemic.

GALL AND DR. MACARTNEY.

To the Editor of the "MEDICAL TIMES."

Sir,-Dr. Maeartney in the Transactions of the Royal Irish Academy, quoted in your last week's paper, page 151, column I, says :- "H we can ever arrive at correct notions of the functions of the brain, it must be by careful dissections of the interior parts of the cerebral organ, and by ascertaining the correspondence between the minute structure, and the endowments and dispositions of the different individuals; taking into account at the same time, the influence of the various organs of the body, instead of uscribing to vertain parts on the surface of the brain, distinct and often apposing faculties as Gall and Spürzheim have done." Without stopping to consider the practice. Without stopping to consider the practicability of the method proposed in the first half of this sentence, (which method is about as excellent as wandering over the ocean would be without a compass), I wish to direct attention to the words in italies, which are intended to insi-nuate a refutation of Gall's doctrines, or at any rate to charge them with gross absurdity and inconsequentiality. As many who read this sentence may take Dr. Macartney's dictum as sufficient without examination, I take the liberty of subjoining what Gall himself really taught respecting "certain parts on the surface of the brain. Gall: Sur les Fonctions du Cerveau, tom, iii., p. 2, Svo. ed. "Is there a relation or determinate correspondence between the brain, the cranium, and the head? The possibility of resolving this question, supposes that the organs of the mind are situated at the surface of the brain, that they are more or less depressed, more or less flattened, more or less clevated, more or less small, according as the exercise of their functions is susceptible of a greater or less degree of energy; that these varieties in the form of the individual parts of the brain are shewn on the surface of the cranium and head; assertions which must be rigorously proved. . . . The following observations will serve to answer the question, how fur is it true that the organs of the mind are situated on the surface of the brain? We must recollect that every nerve, after having | sion; and I am sure that whatever less liberal, | a former Number.

been sufficiently strengthened, ramifies and spreads in the part where it has to exercise its function. The nerves of sensation and of motion spread in the skin and muscles; the nerves of sense, each in the exterior apparatus peculiar to itself; e.g., the olfactory nerve in the pituitary membrane, the gustatory in the tongue; the optic, by its expansion, forms the retina. This part in which the norve spreads is not, it is true, all the organ; but we may infer the magnitude of the acree itself from the extent of its expansion. The expansion of the olfactory nerve in the dog and the horse is more considerable than in man; and the nerve itself is larger from its origin to its expansion, in these animals than it is in man, Nature tellows precisely the same law in the brain. The different parts of the brain arise and are strengthened in different places: they form fibrous bundles more or less considerable and finally spread. All these expansions of different bundles, when united, form the hemispheres of the brain. These hemispheres are then nothing but a nervous membrane, two or three lines in thickness, completely covered externally by an apparently pulpous or gelatinous matter of a greyish colour. Imagine this great nervous membrane (as it may be seen in some hydrocephalt), folded like a flounce, so that each fold is from 12 to 16 lines (more or less) in depth? convolutions will arise, the intervals between which have received from anatomists the name of aufractuosities; and we shall have the two hemispheres, such as nature has deposited them in the cranium in their folded state. The expansion of the olfactory nerve forms analogous folds in the buttons of the nose. A small bundle or fascia can only form a small expansion, and consequently small folds, and a small, or several small, convolutions. On the contrary, a nervous fascia of considerable size, forms a very wide and thick expansion, and consequently very much more voluminous folds and convolutions. Hence although all the portions of any cerebral organ are NOT situated at the surface of the brain, from their origin to their expansion, we may nevertheless from the magnitude of the fold or convolution, conclude with certainty converning the volume of the whole organ. The wider, longer, and deeper are the convolutions, the more space they occupy, and the higher they rise above those which are not so long, deep, and wide; so that a brain, the integral parts of which have acquired an unequal development, offers at its surface hollows, flat parts, and protuberances." is needless to pursue the enquiry further. Enough has been said to shew that Gall did not teach that the organs themselves were situated at the surface of the brain, but that we can, by their expansions there situate, conclude concerning their whole volume, which is very different. As to the sneer implied in the words "opposing faculties," it may be left manswered, as Gall may be allowed to suppose he has proved the existence of faculties which in their exalted state are widely different, until the metaphysicians have proved, not only a priori that such faculties cannot, but a posteriori that they do not exist. As the notion that the organs are only situated on the surface of the brain, according to phrenologists, is a very common error, I have ventured to intrude thus much upon your columns, in order to show that Gall never taught such a doctrine. I am, Sir, your obedient servant, A. J. Ellis.

Dorking, 7th Dec. 1842.

THE NEW MEDICAL REFORM BILL.

(To the Editor of the ! Medical Times.')

Sir-The draught of Sir J. Graham's bill for reforming British Medical Government has been recently placed in my hands, and I do myself the pleasure of asking leave to communicate its contents through a journal which, however remarkable for the energetic ability with which it exposes abuses, is not, at least to my humble perception, less distinguished for the spirit of honest candour with which it can regard both the character and measures of gentlemen with whom, in general, it shews no concurrence of sentiments. Practically, I am sure your object and mine is the same-the usefulness, the happiness, of our common profes-

because less enlightened, critics may do, you will neither pronounce me, excuthedra, as imbeeile of mind, or wanting in sincerity, when I assure you that, taking every thing into account, I consider Sir James Graham's bill the very best which we can hope for under the circumstances-and which, if it fail to show the speculative perfections some sanguine politicians ask for, will produce all the practical good which the profession is really desirous of, or prepared for. It is all very well to talk of representative systems, and Faculties, but where are your men to enact them?—and where, if you get them chaeted, are your men to work What are your associations? One of them, the British, is, or ought to be, dead,-if not defunct, its existence, after your narrative of its decent orgies and respectable organization, must prove an indifference to personal character, in its members, as well as leaders, which must make it something worse than useless to the projects which they are supposed to support. The other, the Provincial Medical and Surgical Association, is a "res non." A periodical which once enjoyed great notoriety, and whose recent extinction is a proof how little its violent medical polities met with sympathy from the profession,* some time since prononneed it an utter failure, and I have my doubts whether the Association has any creed of medical reform which they dare to promulgate, or ask subscription to. You yourself are constantly complaining of the apathy of the profession, which, with the deference to you, is but another word for expressing its dislike to all excessive changes,-so that, Sir, externally, and internally, in the measures proposed-in the authority in their favour-in the disfavour, discredit, and powerlessness of the agitators-in the tacit opposition of the profession to all their schemes of violent disrupturing of our medical polity, 1 see reasons for supporting the moderate measure of Sir James Graham, which, without making a revolution which would do thousands harm, effects all the substantial practical reform which can do any well-meaning and honest man good. I am aware that my sentiments do not accord with yours, and not to increase the risk of their emission in your publication by further prolixity, I proceed to lay before you the details of a bill which, I think, has the highest claims on my fellow-practitioners' approval.

First -the constitution and government of the two Colleges of Surgeons and Physicians are to be practically assimilated.† - Medicine, Midwifery, Pharmacy, and Chemistry, on the one hand-and Surgery and Anatomy on the other, are to form distinct subjects of examination. The first will be supervised by the College of Physicians, the Apothecaries assisting them: the second, by the College of Surgeons - a most wise regulation. This double examination will give a title to practice as General Practitioners. After increased study or practice, these may take the higher de-grees of Doctors of Medicine or Surgery, or both, after renewed examination of a still stricter cha-Each and all of these examinations may be presided over, at pleasure, by any member of the Central Council of Health-a Board formed of one of the two Secretaries of State, four nonprofessional members, nominated in perpetuity by the Government, and eight physicians or surgeons, representing the English, Scotch, and Irish Colleges -four for England, two for Ireland, and two for Scotland, selected by Glasgow and Edinburgh alternately. Government appoints unreservedly the whole Council in the first case, and subsequently choses two for each Colleges, from lists of fives, furnished by the Colleges respectively. And, Sir, whatever your opinion may be on the necessity of medical men for their own government, a little reflection will teach that a few lay-

^{*} Our correspondent (as if influenced by coming events, which, we are told, cast their shadows before) evidently labours under the mistake that the Lawet is already given up. This is not yet the case. Journals, like some other sufferers, will sometimes linger on a long time in articulo mortis.

[†] We have emitted a portion of our correspondent's remarks here, as all this was detailed in

men are not without use in their deliberations. medicine do not, like law, narrow the mind, it contracts the heart-and we never behave better to each other, and our profession's repute, than when under the public's eye. The way to have us harmonious, and not personal, is not to leave us quite to ourselves. The mode of retirement is wisely arranged. After the first eight's withdrawal, the professional part of the Council will be re-composed every four or six years-the precise period, I am told, not being yet fixed. Though it was designed, originally, that the President (the Secretary of State) should nominate the vicepresident, who was not to be a medical man (an equivocal proceeding, I own)-I am told that a change is here in contemplation, two of the Colleges having made strong objections to this plan. Another wise provision is, the great power which this Central Council will exercise over every rule and bye-law of all the Colleges. It will cause a perfect unity in the medical community-build them, if, Sir, I may so express it, into one large house, with a pleasing variety of apartments—and give us general rules, by which our qualifications and respectability will be made matters of assurance to the public.†

In conclusion, Sir, as an old man of some experience, I would recommend you, and the profession with you, to examine this bill as you ought to do, and not squall because you have made a custom of it-nor go on asking if, in the book of platonics, something nicer might not be fashioned-but whether, with due respect to existing interests, and practical legislating in the homely business way which suits Englishmen, anything could be produced so likely to obtain the sauction of Members of Parliament-many of whose sentiments I have the honour to know persomally—and, at the same time, satisfy the reasonable part of our brethren. Some men, I know, nothing will satisfy in the way of medical improvement, except it would teach them to keep the bailiff out of their house, or entrap patients in, —int you. Sir, and such as you—excuse my frank-ness—know better, and should do better.

MILES NON SINE GLORIA.

| Our frank-spoken correspondent has our warm thank for his communication: though, we confess, his logic, practical as he considers it, is not of the sort to make us converts to his opinions. No doubt, with him, we only seek the practical wellbeing of our profession; and if that be secured, guaranteed, we shall not care if in Acts of Parliament, there existed no word about us-or if there did, that in them, and on paper, we were the most incongruously-arranged polity in the State. But our objection to the new bill (not repeated from a habit of opposing governing bodies, as our correspondent insimates; is that it will fail (ither to produce, or producing, fail to scence that practical well-being which forms, we freely own, the only reasonable object of all legislation. The oducation of medical men is left too much at descretionrewards and encouragements to scientific merit are far, very far, too much overlooked, and protection to the practitioner, and, through him, to society, is too little recognized in Sir James Graham's bill, ever to permit as to support it in its present form, on our correspondent's ground that, though deficient in theoretical excellence, it abounds in practical perfections. This is a subject, however, to which we shall shortly have again to direct our readers' attention.—ED.

CHINESE PROGRESS .- We have heard it stated, on authority on which we can rely, that a surgeon to one of the principal London huspitals has been applied to, to receive a young Chinese into his horae, to teach him the art and mystery of surgery .- Globe,

WESTMINSTER HOSPITAL PHYSICIAX. from the foul disgrace which the dashing policy SIHP.

(To the Editor of the ! Medical Times.)

SIE,-In the last number of the Medical Times. my name is introduced as one of the candidates for the Physicianship of the Westminster Hospital, about to be vacant by the retirement of Dr. Burne. I beg, however, to state that I am no longer a candidate for that situation. The Committee of Management of the Westminster Hospital had previously to my appearing on the field, unanimously resolved, I found, to recommend to the Governors my able colleague Dr. Basham. In thus resolving to support Dr. Basham, I am perfectly satisfied that the committee have acted from the purest motives, and have had a regard solely to the wellbeing of the hospital over which they preside, and have besides adopted the only legitimate course in their power of counteracting the negations practices which you have so strongly condemned, and which at present threaten to destroy the independence of the committee, as well as the good name and usefulness of an excellent hospital. Under these circumstances I have deemed if proper to retire, to leave the committee unshackled in carrying out their good work, and hope to be able at some future period to appear before the Governors of the hospital under more propitious circumstances.

I am, Sir, Your obedient Servant, ROBERT HUNTER.

Westmiester Ho pital School of Medicine, Dec. 6, 1812.

To the Editor of the * Medical Times."

Sir,-I am an old subscriber to your valuable paper. I am also an old subscriber to the West-minster Hospital, and am one of the Managing House Committee. Under these circumstances, I take the liberty to trespass on you with a few words, in regard to the forthcoming election of physician to that charity, induced by the very able, humane, and proper remarks contained in your last week's number, as well as to set you right in regard to the general feeling of the Honse Committee respecting this disgraceful job, not be aware that the Committee has been kept most studiously in the dark as to the expected resignation by those concerned in the intrigue, and when about three weeks since, a sum exceeding three hundred pounds was reported to have been paid by new governors, all were at a loss to know from what source. "These soft impulses of divine benevolence" so suddenly arising in favour of this " distracted" charity, it was conjectured that some surgical move was on the tapis, and one of the surgeons who has an expectant son, forthwith found thirty more charitably disposed persons to add to the amount, in his favour of course, but in a short week it comes out that one of the physicians is about to retire from practice, and has given his sanction to a private and active canvass in favour of Dr. Kingston; it is reported, in consequence of pecuniary negotiations regarding a house and farniture, &c. &c. Alas. poor hospital, how art thou sold? Will not this transaction coufer a most honourable distinction on the gentleman who retires from a public appointment into private life? After having so sedulously and scientifically discharged his hospital duties for so long a period, and to leave the institution bordered with a juitful job for the committee to contend with,which I assure you, they are most anxious to destroy if possible, as they are about to pass a resolu-tion, "That the next election of physician shall be for one year only." H will then be seen whether the new governors will continue to support the hospital and their present candidates. I fear your proposition to defer the election sine die, and appoint a substitute in the interim, cannot be adopted as the rules regarding vacancies are imperalive. Allow me to subscribe myself a well-wisher to the hospital, and your much obliged subscriber, H.-M.R.C.S.

Pimileo, Dec. 6, 1849.

We have learned from other quarters, besides the letter of our respected correspondent Dr. Hunter, and our friend "H.," inserted above, that the "House Committee" of the Westminster Hospital are exerting themselves to rescue the hospital be no post mortem examination; and of two guineas

—the storming tactics of our young Hospital Alexander are calculated to inflict. The meeting of the committee on Wednesday last was more than usually interesting. The conduct of Dr. Burne regarding the alleged arrangement with Dr. Kingston, and the subsequent swamping the affairs of the hospital by an inundation of "pocket voters," was animadverted upon by Mr. Bicknell in strong and indignant language, and the dangerous consequences to the hospital forcibly pointed out in almost the ipsissima verba, in which we denounced the transaction in our last number. In the midst of the discussion, Dr. Burne himself appeared, and being called upon for an explanation, spoke on everything but the subject in question. He offered, he said, to sell his house to Dr. Kingston for less than it was worth, and ultimately sold it to another person altogether. He had no time to refer to the furniture he sold Dr. Kingston, regarding which many curious rumours are afloat. The doctor spoke long, and said nothing, and when questions thick as arrows, were thrown from all parts of the committee-room at his devoted head, he grumbled out something about not submitting to crossexamination, and with an agility quite astonishing, bolted out of the committee-room. Dr. Kingston, the protegé of Dr. Burne, was not, however, so easily abashed. He boldly defended the principle of "pocket voters"-maintained that others had acted as he had done, and that the introduction of two or three hundred Governors of his own making, to force him over the heads of more worthy candidates, was perfectly constitutional, and calculated to add to the funds, if not the fame of the hospital. All this logic was lost, however, upon the committee, for they immediately, by an overwhelming majority, resolved, that at the election of a physician to the hospital at the next vacancy, the successful candidate should be appointed for a period not exceeding one year; a resolution in the propricty of which we concur, and although not adequate to meet entirely the emergency, shews the determination of the committee to use every means in their power to put an end to practices at once fatal to their Hospital fame and usefulness. One of the most amusing incidents of the meeting was the frank address of Mr. Guthrie, who avowed that feeling himself somewhat puzzled at the sudden flood of new governors into the hospital; he imagined that some surgeonship was in question, and that to proteet his own interests, which might be in more jeopardy than he knew of-he had introduced some thirty of his friends as governors to be ready at the hour of need. Finding, however, how things stood, he pledged his honor to the committee that none of his nominees should vote in the approaching election,—Ep.]

PAYMENT OF MEDICAL WITNESSES AT CORONERS INQUESTS.

THE act regulating this matter is the sixth and seventh of George IV, chap. 89. By the first clause the coroner is empowered to summon on an inquest the legally qualified practitioner who attended the deceased " at his death, or during his last illness." Or if deceased was not so attended, to summon any legally qualified practitioner "being in actual practice in or near the place" where death happened; and the coroner is further empowered at any time before the termination of the inquest to direct a post mortem examination, with, or without analysis of the contents of the stomach, the medical practitioner attending the deceased being prohibited to perform the autopsy, if oath be made before the coroner that he was partly or entirely instrumental in the death.

By the second clause, a majority of the jury are empowered to require that the attendance of any legally qualified practitioner or practitioners be ordered by the coroner, who, if he refuses, is made

punishable as for a misdemeanour,

The third clause " requires and commands" the coroner to order remuneration to "the legully qualified practitioner" who "has attended upon any coroner's inquest, in obedience to any such order as aforesaid," and fixes the sum of one guinea for "attending to gire evidence" if there

[†] Our correspondent gives us, here, some further details as to the registration of medical men, and their legal separation from quacks, which, as published in the Number before referred to, we have taken the liberty of omitting.

for a post mortem examination of the deceased, either with or without the analyses, &c., conjointly with attendance to give evidence.

Clause 4 prohibits all payments for past morten examinations where there has been no direction for such examination by the coroner; and clause 5 excepts from payment under this act, all witnesses who being the medical officers of any hospital, lunatie asylum, or any public medical institution, had the duty of attending the deceased person, the subject of any inquest.

By the sixth clause, a five pound forfeiture is enacted against medical practitioners who being duly served with the coroner's order, do not attend the inquest. Service at the house is service to the

practitioner.

PHRENOLOGICAL SOCIETY.

On Monday Evening the usual meeting was held at the Rooms, Exeter Hall. After the minutes of the last meeting had been read by the secretary, T. Hewett, Esq. R.A., W. Topham, Esq, Middle-Temple, and Dr. Debout, of Paris, were elected Members of the Society. Dr. Elliotson, in alluding to the case of Cooper, which had been the subject of the last meeting's lecture said that the head was small, the organs of "Destructiveness" and "Caution" were very large, which must inevitably produce Revenge. He then remarked upon the curious mesmero-phrenological phenomena clucidated by Mr. Carstairs, of Sheffield, where the patient upon the organs of Time and Tune being touched, sang an air, and when Language was chafed added words to the tune. The other organs produced similar results, and this, under circumstances which precluded all possibility of collusion. He next entered into a clear detail of phreno mesmerism for the honour of the discovery of which, there was a sharp contest in America, between Dr. Collyer of Massachussets, and Dr. Buchanan of Louisville. By this discovery, the Doctor said, it is shown that during mesmeric sleep, one organ may be separately excited, and that also, at one and the same time an organ on either side of the cranium, may be simultaneously excited, thus presenting, as it were, two distinct minds co-existant with each other. Thus whilst one arm, should menace upon Combativeness being touched, the other, upon Veneration being excited, should be put forth to welcome. The president exhibited the east of a young lady (at. 18) in whom all the moral qualities were highly developed, and whom he had cured by mesmerism of severe epileptic fits. He observed that he had never been able to excite the intellectual faculties in this case, although he had repeatedly tried. He concluded his observations by announcing that at the next meeting, ladies would be admitted. Nothing of further interest occurred.

EXTRACTS FROM FOREIGN JOURNALS.

(Translated from the ' Berlin Medicinische Zeitung,' For the 'Medical Times.')

On the Relation of Affections of the Heart, with Acute Rheumatism. By Dr. Schlesier. THE merit of having drawn attention to the connection of inflammatory affections of the heart with acute rheumatism, belongs to the new French school of Bouillaud. The subject, as it deserves, has received proper acknowledgment from us; and it can escape no medical man who is familiar with the investigation of physical symptoms, how frequently inflammawith rheumatic fever. Testa had, indeed,

the fact profitable in practice. Much, that by the old physicians was considered as nervous rheumatic fever, and wherein the death of the patient was the consequence of an exciting method of treatment, is now acknowledged as pericarditis and endocarditis, and cured by bleeding. The occult inflammations of the heart, found in the bodies of those dying from the so called nervo-rheumatic fever, have ceased to be latent, since medical men have learnt by the use of the stethoscope, to discover inflammations, of which, on account of the want of subjective symptoms, and functional disturbances, no external signs appear. Affections of the heart, which so frequently accompany violent acute rhenmatism, do not always depend on inflammation; but pure nervous affections of the heart arise in the course of rhenmatic fever, disturb the functions of the heart, and bring forth the same complex symptoms in the subjective phenomena. As Bouillaud's opinion, and the antiphlogistic treatment based upon it, is so beneficial in the greater number of cases in which the co-existing affections of the heart are inflammatory, so must they be destructive where spasm of the heart complicates itself with the rheumatic fever, and calls forth the heart symptoms. Rare as these eases may be, in proportion to the inflammatory, yet is the fact certain that they do occur. The distinction according to the subjective and functional symptoms is impossible; here alone the physical signs may he able to give the solution, and on their emplayment depends the life of the patient. 1 had an opportunity of observing a very instructive case of this kind in January last, and believe it is not unworthy of publication.

A clothier, Kr., a pale, thin, and weakly man, had, in the latter end of December, much heated himself by a journey on foot, when an opportunity offered for him to ride home in a farmer's waggon; he had with great improvidence lain down in the open waggon, being very lightly clothed, and from weariness soon fell asleep. When he arrived at home, he was stiff in every limb, and was not able to move or stir himself. A violent fever came on, with very great pain, cough, side stitches, anguish, anxiety, and suffocation. I was called in on the 2d. January. The fever was strong, great heat, burning thirst, the pulse (120) small, hard, quick, the skin hot, and (they had given him elder tea for drink) covered with a profuse sour perspiration, prine crude, scanty, smelling sour and reddening litmus paper. He had not slept for two nights, light delirium, his sensorial functions in general not clear. He lay stiff on his back, without being able to move a limb. Every articulation, from the upper vertebra to the joints of his hands and feet, was attacked with violent rheumatic pains, the last reddened and swollen. Together with these, the patient suffered from short, painful cough, with slightly bloody sputa, stitches in the side, oppression, and short breathing, and frightful attacks of anxiety and suffocation. Auscultation shewed dry crepitation in wider extension in the right lung, with entire want of the normal murmuring respiration sound, and percussion gave a dull sound, while the heart with powerful palpitations and an anomalous impulse gave to the ear a vehement shock, and on the left of the sternum was perceived a rasping sound. One could labour under no doubt, that the patient suffered from acute rheumatism, with parenchymatous inflammation of the right tory affections of the heart are complicated lung, and inflammation of the pericardium, with sthenic reaction. Copious general and already shewn this relation, and the merit of local bleeding, and the internal employment of laud, to whom the stethoscope and percussion course of a few days in setting bounds to the valerian with liquor elleri, repeated frictions

were at command, has been the first to make inflammation of the thoracic organs, and in some degree moderating the violent pain of the joints. By the 6th of January, the heart and lung symptoms were removed, the heart stroke now only a little hastened, its impulse hardly raised above its normal state, the grating sound disappeared, and instead of the crepitation in the right lung, moist mucous rattle was audible. The attacks of anguish, anxiety, and suffocation had ceased. The patient expectorated well, the reactive fever showed itself much moderated, in the character of erethism, the pulse was become soft, slow, and undulating; the urine less tiery, formed a crystallized sediment, but the cuticular secretion was yet raised above measure, and combined with purple cruptions upon the breast and back, to which the small hot room might well have contributed. The rheumatic affections of the joints of the vertebra had nearly disappeared, but the swelling of the joints with the pain yet continued with the same violence. bilitated patient took ammon, carb, with ext. aconit.; and the continued disturbance of the nightly sleep, threatened a prejudicial influence upon the already disturbed sensorial functions, which was the more to be feared as the patient was not free from the suspicion of the abuse of spirituous liquors. From the danger, I endeavoured to increase the purple emptions and perspiration; with the ammon carb. I gave calomel grs. ij., opii. i. at night. By these means he went on quite as well as could be wished until the 11th. The fever had nearly quite yielded, heart and lungs completely free, the left hand quite painless, and in the feet and the right hand the rheumatism was so far mitigated by the lessened tumefaction that the patient might be considered as re-convalescent, and this the more, as the sweating, quite contrary to my expectation, had ceased, from the use of the ammonia and opium, and a more moderate temperature of the room, and a light covering instead of the heavy feather bed. The eruption had dried up, and the urine shewed a copious critical crystalline sediment.

In the night of the 12th January, the 14th of the disease, the patient was seized with a violent attack of palpitation, anguish, suffocation, and apme, which lasted an hour. In the morning I found the fever again kindled, the skin dry and hot, the urine crude, and without sediment, yet no heart or lung symptoms, except a quickened beat of the heart. Towards night the above paroxysm renewed itself, while the fever reached a considerable height, and the palpitations came on with the same intensity and extension as before, the pulse (100) small and quickened; the local symptoms in the joints had nearly disappeared. I confess, that in the idea of a recrudescence of pericarditis, and impelled by the pressure of the circumstances, I had seized the lancet, and only delayed from reflection on the great weakness of the patient; I applied my ear to his chest, and I heard an extremely quickened stroke of the heart with a strong shock, phenomena which might be perceived by the applied hand and eye; but no trace of false sounds of the heart, and indeed neither grating sound, as characteristic phenomena of pericarditis, nor bellows sound, or rushing sound, as criteria of endocarditis, or rattle affection. Percussion gave even as little suspicion of exudation, which from the general distinctness and clearness of the heart pulse was not a priori to be thought of. From enquiries, I now first learnt he had suffered from great emotion of m nd the day before; he had been judicially distrained. Now his situation was at once clear; instead of a fatal bleeding, he received a dose of opium and a on the back with spir sinap, and a daily dose of opium, I succeeded in conquering the periodically exacerbating and remitting heart spasms, in the course of a few days, and in bringing on a normal crisis of the skin and urine, and giving life to the man who, for many days had been apparently condemned unconditionally to death. This case exemplifies the importance of the stethescope and percussion.

TO CORRESPONDENTS.

B'e may announce that we commence next week giving DR. MARSHALL HALL'S LECTURES (now in course of delivery at St. Thomas') on the Diagnosis, Pa-THOLOGY, AND TREATMENT OF DISEASES OF THE NERVOUS System—a set, reported verbatim expressly for the "Medical Times," and carefully revised by the distinguished lecturer. This will form the host possible pendant to Professor Owen's Course, (the publication of which we have recently completed) on the Comparative Anatomy and Physiology of the Nerruus Sustem.

Will C. tell us if all be right. If so, the parcel will

be completed immediately.

Verus .- We are perfectly indifferent about the journal. If the Mr. Renshaw spoken about, of whom we know nothing, be one of those who rain themselves to please a whim, or gratify an antipathy, the loss of five or six pounds a week must be a mere bagatelle, especially if it be as our correspondent supposes, an affair of credit.

Adscriptor. The M. B. of the Dublin University would be no protection for the graduates practising in England. Till, however, every unqualified man practising in England were proscented by the Company. we should think our Correspondent would not be intermeddled with, and that gives him " a long day.

Dr. Fleming .- A Correspondent, giving his name. sends us a circular, published by Dr. Pleming, in Douglas, the Isle of Man, which enlarges on the Docter's abilities, giving in full testimonials written for him supparently by Dr. W. Stokes, Sir Philip Crampton, Mr. J. T. White Se., backed by all kinds of statements as to who he is, who he served, and with what approbation. Perhaps Dr. Fleming an; anacquainted with the virenmstance, and will, therefore. pardon our assuring him that this mode of procedure is not that which the decenvies of society, or the rules of gentlemanly etiquette, allow.

II .- The Almanue (now stereolyped) continues on

sale, price 4d. stamped 5d.

Dr. Aldis' diagram has been received, but we are disposed to think that the written description is sufficiently clear. If Dr. 1. thinks differently, we should be glad to see the block.

A number of Correspondents will find answers in our abstract of the Medical Witnesses Bill.

A Gloucestershire Subscriber would meet with no rout difficulty in passing the examination. The name. if successful, would be published as a matter of course. Under the circumstances, however, we should say quieta ne movere. If resideed to pass, the better way would be to arrange every preliminary through Mr. Belfour before coming to town.

Mr. Wakeman's kind offer is gladly accepted; and if all our other friends would use their influence in seewing us fresh subscribers among their personal friends, we should feel more and more strongly the conriction now animating us, that we belonged to a profession touly worth buttling for. They would tou (may we presume to say it?) do their friends a service—as us a farour.

The Cases of Mr. Moore, and Mr. Smith, and Communications by Potens vini, M.N. Cary, M. S. H. D. and Dr. Bennett, received.

Mr. Lugar is thanked. We did not justes, to give all the medical institutions. The remuneration for modical witnesses attending trials is two graneas a day. In taking casts, however, or allowing expences, great discretionary power is exercised, and hence great discrepancies in amount.

C. B.—The order was received. To the other question we have got advice, and the answer is decidedly yes. Our Correspondent will find the abstract of the

act in another page,

Mr. Power's note has been received, but as a general rule we do not print answers to us which have appeared

one of his toeth-hrushes, which "Her Majesty has done Mr. P. the honour to accept," we will give her Majesty, who does us the gravious honour of reading our journal, our humble and dutiful opinion as to the propricty of using it.

T. F. A .- Professor Chamel's Lectures were commenced in vol. 5, and finished with vol. 6. Dr. Scoffern's were inserted in various numbers of the same journal. Any number of vol. 5 or 6 may be had through any bookseller by order. And to other enquirers we may say the same of vols. 1 and 3. There are several numbers of vol. 2 out of print. Vol. 5 contains also Velpean's Surgical Lectures.

THE MEDICAL TIMES.

SATURDAY, DECEMBER 10, 1842.

Did these hones cost no more the breeding but to play at loggats with them? mine ache to think on t.

Shakspeare.

A strict regard to public decency, — a vigilant protection over general health, is one of the most sacred debts which a Government owes its people. It is no speculative principle of right—no inapplicable theory of abstract good-but a social benefit, practical, tangible, vast; one of the highest boons of assured civilization, as one of its surest marks: and which, indeed, forms one of the main considerations which make the checks and limitations imposed by Civil Government, worth the acceptance of mankind. In France, where, thanks to Napoleon, social justice—a thing very different, though not opposed, to the subject's liberty-is higher than in any other country in the world, this important matter is a primary concern of the State; and forms the sole subject of watchfulness to an intelligent and well-remunerated corps of medical police. By whom, or how, is the duty discharged in enlightened England? Alas! we have only to read the report of the House of Commons on the health of towns, and that of Mr. Chadwick on the sanitory condition of the poor, to have the plain fact demonstrated, that, despite our inquiring commissioners on all imaginable subjects, and our unemployed State pensioners for every imaginable reason, there is not a public person in the empire to whom public decency, or public health, is a matter of the least official consequence; and that, to all intents and purposes, they are subjects of which, neither our code of national jurisprudence, nor our machinery of law administration, nor our system of general government, take the least possible cognizance! The morals, the feelings, the healths of the great bulk of British society are, in a myriad of unnoticed ways, at the mercy of any knave or fool who finds it his interest to speculate against them. Could ANARCHY leave our country in its social relations, we will not say in a worse or more perillous, but in a more disgraceful condition ?

The subject involving public health and decency, to which we mean to direct public attention to-day, is one on which we have frequently dilated-rnE SHOCKING AIROCHHES OF THE LONDON GRAVE-YARD SYSTEM. Hitherto we have first in the Dublin papers. If Mr. Power sends us contented ourselves with general remarks, of the clay is strewed over this, and it is

directed against a foul and horrible custom, with a view to some measure of curative legislation. But we appear, now, to accuse, to punish, -not solely to expose the system,-but to convict on elearest evidence, and point out to condign punishmentspecifically-individually-by NAME, some of the worse than cannibals who have worked and profited by the atrocities. There is policy in this, as well as justice. The monster-evil is incarnate in its fautors: -to smite them, is to destroy it: and though the duty be invidious, there is crime in its neglect. In proportion as the Government is forgetful of its office, the more urgent becomes the interposition of the public press-that great atoner for all governmental deficiencies.

The first culprit we place at the moral bar of public justice-alas! that it is the only bar at which our laws will allow us to place him-is Mr. Joseph Davis, the sexton of the parish of St. Ann, Soho. Our charges against him are threefold. First, that he adopts a swindling and dishonest mode of arranging interments; secondly, that he connives at, allows, orders, for his own pecuniary profit, a most indecent, a most horrible, and revolting system of mutilating, chopping, sawing up, and stowing away the remains of the recently-interred dead; and, thirdly, which follows from the two preceding, that he for years has been foully and grossly offending against public health and decency. The grave-yard under Mr. Davis's care consists of about two acres; and when we state that the place was formerly entered by a descent of three steps, and now by an ascent of four, it is made more easy to imagine the immense amount of carnal decomposition pervading the whole upper strata. Twelve years since, it was full "as an egg," to use a gravedigging informant's term: but the ingenuity of Mr. Joseph Davis has contrived, since, to extract thousands on thousands of fees, by adding to the heap thousands on thousands of additional corpses. As the saving of space is, of course, in such a state of things, a primary consideration, Mr. Davis has adopted a plan of some ingenuity, which we now proceed to make known. Graves are opened by him on what the diggers call "speculation." It is a mode by which fourteen or fifteen coffins may be buried with the expenditure of little soil, and little labour, and vet give satisfaction to the surviving friends of each. A grave is dug twenty feet deep; some six or eight paupers are buried one after another, till twelve feet from the surface is reached—the grave being kept open ten or fifteen days or more, till disease, in its successive course of sad triumphs, has sent them the number required. Till this period, little ceremony is required; but as twelve feet is a depth for respectable interments-for fee-payers, in short—the economic arrangement can only be maintained by the aid of clever deception. Accordingly, a boarding is placed over the last pauper's coshin, a little offered as a very eligible grave, newlydug, and single, to the next person enquiring for a purchased grave. The respectable corpse, if the surviving friends be very auxious, is now covered a foot deep with clay, which is again thrown up to admit another tenant tomorrow; and so the deception goes on, till Mr. Davis reaches within about four feet of the surface, when four children are in succession deposited on the top of all—a process technically called, "putting them on the shelf"--when the grave is covered up and another 20-foot grave commenced elsewhere. If a party cognizant of this practice insists on a separate grave, he cannot be obliged with his wish, unless he consent to have a twenty foot grave, and pay about thirty shillings for extra grave digging. He leaves the ground with the consoling belief that he has, at personal sacrifice, secured an undisturbed resting place for his friend's last remains. Fond delusion! The corpse of the loved one has been covered with a boarding and a sprinkling of earth, and it will not be finally closed till eight or ten more corpses are added to the heap! We shall not enlarge on the shameless dishonesty and revolting inhumanity here evinced. The cruel deception played on the parties' moral feelings -the charges, as for fourteen separate graves, where the expense has been but for one-the indecency of such a money "speculation"—the public injury to the health of the neighbourhood of leaving the corpses exposed for weeks under a broiling sun or drenching rains; these are facts plain, undeniable, revolting, and for all their criminality, Mr. Joseph Davis is the responsible party.

But we are yet far from done with the dishonesty of this parochial functionary. Our readers need not be told that persons having liberty to place a stone over an interred corpse, must have purchased the right to the soil in perpetuity. Now, it is a common custom in this grave-yard for the men, under the direction of Mr. Davis, to remove these stones-the land-marks of the dead—from one position to another, in order to allow the grave-digger to possess himself of the grave so occupied, and appropriate it to the use of some fresh purchaser. The robbery involved in these customary transactions is the least evil: there are, besides this, the violation of the feelings of the survivors, whose most sacred memories and hopes, it may be, entwine themselves round the last abode of their cherished friendthe chagrin and bitter disappointment they must suffer, if they detect the cheat-the foul deception practised on them, if, less unfortunate, they do not-and, lastly, the grievous mistakes the transaction would lead to, if there were question of disinterment; considerations which might be added to without number, and enlarged on without measure, but which, alone, and without comment, stamp this infamous custom of gain, and low villainy, as one deserving of all infamy.

Davis has been concerned in a wholesale system of mutilating the dead. In mentioning the smallness of the ground-its fulness long years since—the numerous interments that are yet constantly taking place—a moral necessity is shewn for such mutilations. Without them there could now not be a single inhumation in the ground. But we are not dependant on such deductions. We have the authority of two workmen who dug in the yard for years, that seenes take place in digging every one of the twenty-feet-graves we have mentioned, which defy, in their disgusting horror, everything that the imagination could conceive. Recently-interred coffins are frequently come in contact with—sometimes in tiers—the tenants of which are as perfect as on the day of interment. The work is not, therefore, stopped. A rope, an axe-mattock, a saw, a kuife, a stove with shavings, are procured, and are thus used. The saw is to divide the coffin, if too new for the axe-mattock, an instrument peculiar to this kind of work. The knife is surgical - it is to shorten the corpse, by cutting through the joints. The rope being slung round the body, or a large portion, the corpse is drawn up to be " shoved"—our informants' word—into a hole dug for it by the side of the grave.* During this work of mutilation and butchery, the store, filled with lighted shavings, is kept below to prevent suffocation from the escaping gases; the men being, meanwhile, kept in spirits by the abundant chewing of tobacco, and drinking of gin, supplied by the sexton. We have here supposed them to have come in contact with the whole length of a coffin in a state of good-we might say ordinary-preservation; but it often happens that the coffin, or tier of coffins, only abuts by a third or a fourth of its length into the newly constructed grave. What then happens? The saw-the knife-are in request. The coffin wood is thrown up above, and the "disjecta membra"-the head or legs, as it may be-are violently forced back with the shovel or mattock into the other and untouched part of the coffin; and the orifice being plastered over with dirt, no trace of the horrible circumstance exists! This is an ordinary occurrence of grave-digging-an occurrence of which Mr. Davis has been too frequently cognizant, and which two grave-diggers known to us can and shall-if asked-demonstrate the existence of, by putting their feet on the very spot, the scene and still existing testimony of these atrocities.

These are facts stated only in part, and these as briefly as possible to suit, not the magnitude of the abominations, but the limitations of our space; but we think that, thus slightly given, they furnish abundant evidence of the eriminality of the person whom, in the discharge of our duty to the public, we have felt it necessary to fix

in the pillory of social justice. Nameless and obscure as may be the culprit-countenanced and encouraged, as he may be, by higher offenders against deceney—it would yet be neither just to allow such odious practices to pass unrebuked, nor wise-we have thought-to omit so favourable an opportunity of giving, in his punished person, a useful lesson to all who may feel tempted to imitate his example. In the absence of any legal tribunal at which he might receive the punishment he so richly deserves, we have fearlessly dragged him before that of the public-we have stated offences against him he dare not gainsay, and which certainly we should never have been foolish or wicked enough to charge against any man, unless urged on by public duty, and supported by irrefragable evidence.

We now leave Mr. Davis in the hands of his parish and the public; merely subjoining, as supporting the statements that have been made to us by grave-diggers who have long worked in the ground-the evidence of another, given before the recent Committee of the House of Commons, Edward C. Copeland gives us, in reference to this ground, the following information:

Do you think the occupation of grave-digging is very unhealthy?—I am sure it is; and I have seen them play at what is called skittles; put up bones, and take skulls and knock them down; stick up bones in the ground and throw a skull at them as you would a skittle-ball.

Who has done that ?-Fox and a party who used to go there to assist him in digging.

tlave you known of the handles and nails of coffins being taken away?-Yes, there have been a great many taken away off the coffins.

Who took them away?-Fox, the grave-digger; he died lately in Drury-lane.

Could the inhabitants, in looking out, see all this?—Yes, they could not be off it; for it is surrounded with back premises all round.

Have you heard of any leaden coffins being cut up?-I do not know that I have there; but I have known Fox take off the handles and take out the nails with a sort of crow-bar.

Did he keep them for his own use?-Yes, he sold them. What do they do with the bodies when they cut away the coffin wood?-They emaciate them; the flesh they leave in the ground, and take the bones to the bone house. I have seen them chopped up before they were a quarter decayed. About nine years this month, my father was laid there. I cannot answer whether he lies there now, or whether he is taken up and knocked about.

Suppose they came to quite a fresh coffin, what would they do? - If it has been in three weeks, they would not mind cutting it in two. I have seen them not a quarter decayed before they have been cut to pieces with the pickaves.

We add, as elucidatory of this, the evidence of Bartholomew Lyons, who, having the fear of losing his situation before his eyes, was anything but a willing or accusing or untutored witness. However, the following facts came out; it will be seen how they bear on our statement:-

I have had graves 21 feet deep where I now work; I have got one grave now with three bodies in it; it is 21 feet from the commencement of it, and after I have got out a few hours and leave it open, the foul air will get in; it is 17 feet deep

Is the grave kept open?—It is not exactly open, there is about 3 feet of earth on the top of the coffins, and then it is covered over by boards, and then so much earth on the top of the boards.

^{*} There is also a bucket used to carry up the more liquid part of the decomposed matter; its Now for our second charge—that Mr. duties, however, often extend to the solids.

So that every time a body comes you open the 3 feet and deposit the coffin?—Yes, according to

the size of the coffin, if it wil go down.

What is the custom that you adopt in digging graves?—These 20-feet graves are allowed by the board of frestry, and on purpose to make the ground last the longer, every fresh grave is to be sunk 20 or 21 feet, if we can get 21; we get it till we come to water, and then we cannot get any further. If we meet with any other collin that cannot be removed, we never touch it;* but otherwise timber that has been down from 40 to 50 years, with nothing in it except the bones, we remove.

You remove everything that is not sound?—It is all decayed, the bones and all, they have nothing on them, and we sometimes break up the old cedlins.

What do you do with the mass?-The bones we

put in a bone-hole.

What do you do with the coffins?—We take that to the place where they steam the church, and

burn the wood.
Who burns it?—The beadle burns it, I believe,

what we do have.

What quantity do you get up in a week?—
Where we dig one of these graves, we may have
three or four barrows-full; that is where we have
to dig a 20-foot grave; but there may be some
graves where the coffins are decayed, and nothing
in them but the bones, and then we may have man
A POZEN BARROWS-PULD, and that is chucked
down to where the steaming place i, and the
beadle burns them.

Do you usually find this gas and foul air coming to you from other coffins on each side of you?—At times very soon after I have burnt it out, I shall have to burn it out again.

And if you were to stay there, what would be the effect?—It would kill me, or any one else.

In digging this depth and taking away the wood of these coffins, has it ever occurred to you that any bodies have fallen upon you? I never had one in a deep grave, but I had one once; beforel was there a man of the name of Fox had the ground: I succeeded him; he is now dead; he was a bad character: he is dead about three weeks. I dug a grave on a Sunday evening on purpose to get ready for Monday; that Sunday evening, and it rained, 1 was strange in the ground at that time; and when I went to work on Monday morning I finished my work, and I was trying the length of the grave to see if it was long enough and wide enough, so that I should not have to go down again, and while I was in there the ground gave way and a body turned right over, and the two arms came and clasped me round the neek; she had gloves on and stockings and white flannel inside, and what we call a shift, BUT NO HEAD.

The body came tumbling upon you?—Yes, just as I was kneeling down; it was a very stout body, and the force that she came with knocked my head against a body underneath, and I was very much frightened at the time.

You were at the bottom of the grave, and as you were digging at the bottom, the body of this woman without a head fell upon you?—Yes.

From the side?—Yes, from the side.

Out of the collin?—It HAD NEVER BEEN IN A COLFIX; it is supposed that they took the head off for the purpose of sale.

What doubt were you down when this body fell upon you? About nine feet.

Might they not have cut through the head as they dug down?—No, this body was taken out of the coffin before; she only lay just on the top of the earth, a little covered over; if she had been nuried any depth at all, three or four feel, she could not have fell on me, the shoring of the earth would have kept it up.

How many wheelbarrows-full of coffin wood do you say you take away every week?—Not every week, but when we are digging these deep graves I may take away a dozen barrows-full; taking it upon the average, I should say, that for every

 This, the witness now owns, is far from the truth, as is proved, indeed, by the subsequent part of his evidence.

deep grave I should take a dozen large barrowsfull of wood out of the grave.

What is your salary or perquisites?—I have no wages unless I do work, except that I have 18s, a quarter for doing the church bells; this week I have not carned a farthing yet; I have half-acrown for every grown person I bury, and I have half the extra digging, if there is any extra depth, and my muster* has the other half.

Do you mean to say that you would like to change?—I cannot stop there long; I suppose the grounds will be shut up; I have been there how some years, and if I should happen to want anything, the gentlemen give it to me.

We shall next week have a few words on the Tabernacle Chapel and its Grave-Yard, Tottenham-court-road.

REVIEW S.

Food and its Influence on Health and Disease; or, an Account of the Effects of different kinds of Aliment on the Human Body, with Dietetic Rules for the Preservation of the Health. By Matthew Truman, M. D., we. &c. London: Murray, 1842.

This work is interesting more from the nature of the subject than the mode in which the subject is discussed. We have a great mass of information collected on the subject of aliment, which, though given in a very succinet manner, is both curious and important. The author seems to have aimed only at imparting what is known upon the subject, and never ventures upon the field of speculation, or shews the least tendency to originality of research. Yet the work is not unscientifie; nay it is even likely to attain popularity with the public if not with the profession. following our author into all the details of his subject, we shall endeavour to place before our readers in a general way the most important features of the work. Our author defines food " to consist of all ingesta taken into the body by which nutrition is effected or assisted. We do not like this definition; it appears to us nonsensical and absurd. A wheaten loaf, though not eaten, is still food, and many things taken into the body, and which assist in effecting nutrition, can upon no sound principle be called food. A blue pill or a turpentine injection may improve the state of the digestive apparatus, and thus assist in effecting nutrition; yet we cannot live upon blue pills or turpentine clysters. Food is that which directly contributes to the nutrition of organized bodies; everything which does not directly contribute to this end must be excluded from the eategory. Hence we would exclude condiments and medicines, and everything that does not yield one or more of the proximate and oleaginous principles of animals and vegetables. Accoding to this last view, mutritive matters may be said to include only, 1st. proximate principles of animal substances - as fibrin, albumien, gelatine, osmazome, mucus, animal oils and fats; and 2dly, proximate principles of vegetable substances—as gluten, mueilage, farina or starch, sugar, vegetable These proximate principles may be viewed as pure nutritious matter diffused naturally among animal and vegetable structures, and capable of being extracted from these textures either artificially or by the action of the digestive apparatus. The book before us shows not only the extended circle of animal and vegetable existence from which man draws his subsistence, but also the diversities of taste which different nations and races of men exhibit in their choice of aliment. The food

of man is derived from every class of verebrated animals, viz., mammiferous, birds, reptiles, and fishes, and from two great subdivisions also of the invertebrated, the mollusca and insects. The food derived from the vegetable kingdom is more diversified in form than that from the animal; thus, we have not only seeds from which bread, the staff of life, is derived-as wheat, barley, oats, rye, beans, pease, &c., but we derive immense supplies of nutriment from tubers, roots, fruits, seed vessels. leaves, bark. pith, and the sap and juices of plants. One man's meat, as the Proverb has it, is another man's poison; and the abhorrence with which one set of men regard the aliment of another would seem to justify, in this sense, the application and truth of the adage. We can relish in this country a steak from the pope's eye of a fat ox, or a slice from a leg of five years' old mutton, but would feel rather queusey about dining on a shoulder of horse-flesh, even though garnished with savoury dog and cat sausages, and supported right and left with broiled rats and fricaseed moles; yet in Denmark and Sweden horse-flesh is sold publicly in the markets. Degs and cats, as well as frogs and toads, * are eaten in Paris, and in China, rats and moles are used every day as articles of food. Verily we are a prejudiced people, and shall we never learn wisdom? Our author, as might be supposed, is an advocate for good cheer, and highly commends the practice so often followed in this country of commencing or terminating any important commercial transaction with a good banquet. He views the practice as a powerful motive to human exertion; we cordially agree, and would seriously recommend the learned author to extend his principle to literary transactions also, and we are sure we should then stand a fair chance of a good turtle and venison dinner from the author himself for our review of the next edition of his work-the present edition being an excellent morecan, or rather, a substantial lunch which is worthy, in south, of the rumination and digestion of our readers.

Case of Smeide, &c. By Dr. Robert Spittal, F. R. S. E.

Thus is an interesting case in its medicolegal aspects. M. D., a washerwoman, aged twenty-seven, married and having two children, was committed to Edinburgh prison. M. D. shewed symptoms of delirium tremens on the day of committal; on the next seemed well and composed, but towards the evening was found lying on the floor dead, with her throat horribly cut, a jug broken in pieces lying by her side, one portion all bloody. The cell in which deceased was found was locked, as was eustomary, during service. The blood spilt was great; there was much in the cell-pail (as if deceased leaned her head over it) and in one of her shoes which was on, the other off; her hands were a little bloody, and clothes, particularly about the neck, &c. On examination, the neck was found streaked and marked with dry blood; shewed an irregular wound in the front of the trachea, extending from the lower edge of the cricdid cartilege downwards for more than an inch, and being about an inch wide. The edges were abrupt and had a rugged appearance, and altogether there was no doubt that the deceased, who was of irregular habits, and in the depressed state of mind of all persons who, accustomed to ardent liquors, find themselves in moments of adversity entirely shut out from their usual stimulus, had committed suicide with one of the sharper portions

[&]quot; The seaton, Mr. Joseph Davis.

of the broken jug. The singularity of the ease was, that some window glass and an iron spoon (instruments of more obvious lethal power) were lying immoved on the cell-window. The immediate cause of death offers here some little difficulty; Int we should be disposed, all eircumstances considered, to agree with the author, and attribute it to the hemorrhage, rather than to the entrance of air into the eir-

ENGLISH PATENTS, MORE OR LESS CONNECTED WITH PHARMACY, CHE-MISTRY AND MEDICINE GRANTED IN

Armes, John, Plymouth, painter, for a new and improved method of making paint from materials not before used for that purpose.—January 16.
Baillieu, William, Gloucester-street, Queen-

square, musician, for improvements in apparatus to expand the human chest.—Dec. 23.
Barratt, Oglethorpe Wakeliu, Birmingham,

metal-gilder, for certain improvements in the pre-

cipitation or deposition of metals.-Sept. 8. Bucknell, William, Westminster, gent., for improvements in applying heat for the purpose of

batching eggs; which improvements are also applicable to other useful purposes where heat is required.—March 22.

Burnell, John, the younger, Whitechapel, manufacturer, for improvements in the manufacture of leaves or sheets of horn, commonly called lanternleaves, and in the construction of horn lanterns.-November 2.

Chesterman, Wm., Burford, Oxfordshire, gent., for improvements in filtering liquids.--June 23.

Clark, Thomas, Professor of Chemistry in Marischal College, Aberdeen, for a new mode of rendering certain waters (the water of the Thames being among the number) less impure and less hard for the supply and use of manufactories, villages, towns, and cities.-March 8.

Daniell, Joseph Clisild, Tiverton Mills, Bath, for improvements in the manufacture of manure, or a composition to be used on land as a manure. -October 7.

Dean, John, Dover, Chemist, for improvements in preparing skins and other animal substances for obtaining gelatine, size, and glue, and in preparing skins for tanning.—February 23.

Drew, Joseph, the younger, St. Peter's Port, for an improved method of cutting and rolling lozenges, and also of entting gun-wads, wafers, and all other similar substances, by means of a certain machine designed by him, and constructed by divers metals and woods.—September 6.

Dyer, Charles Bunt, Pary's Mine, Anglesea.

mine agent, for an improved method of obtaining paints or pigments by the combination of mineral solutions with other substances.—March 16.

Elain, Alfred, Huddersfield, surgical-instrument maker, for improvements in apparatus or instruments for the relief and cure of Procedencia and Prolapsus Uteri.—September 20.

Evans, George, Dorset-place, Marylebone, for an improvement or improvements upon trusses for

the relief of hernia.—March 29.

Fanshawe, Henry Richardson, the younger. Hatfield-street, Surrey, chemist, for improvements in curing hides and skins, and in tunning, washing, and cleaning hides, skins, and other matters.-

Furnival, John Bradford, Street Ashton, farmer, for improvements in evaporating fluids applicable to the manufacture of salt, and to other purposes where evaporation of fluids is required .- Oct. 20.

Furnival, James, Warrington, currier, for an expeditious mode of unhairing, mastering, and tanning various descriptions of hides and skins.— March 29.

Goldner, Stephen, West-street, Finsbury-circus, merchant, for improvements in preserving animal and vegetable substances and liquids.—March 8.

Gunter, Henry, Cullum-street, Fenchurch-street, merchant, for improvements in preserving animal and vegetable substances.-January 6.

sex, accountant, for an improved description of fabric suitable for making friction-gloves, horsebrushes, and other articles requiring rough surfaces.-February 3.

Harwood, John, Great Portland-street, gent., for an improved means of giving expansion to the chest.—October 7.

Haughton, John, Liverpool, clerk, for improvements in the method of afflying certain labels .-June 19.

Henderson, Robet, Birmingham, chino-dealer and glass-stainer, for certain improvements in apparatus for heating and lighting apartmentments, and for other like purposes.-Dec. 9.

Hills, Frank, and George Hills, Deptford, manufacturing chemists, for certain improvements in the manufacture of sulphurie acid and earbonate of

soda.—April 15.

Hompesch, Theophile Antoine Willhelme, Count of, Mivart's Hotel, Brook-street, Middlesex. for improvements in obtaining oils and other products from bituminous matters, and in parifying and rectifying oils obtained from such matters. Sept. 4.

Laming, Richard, Gower-street, Bedford square, surgeon, for improvements in the production of carbonate of ammonia.—March 15.

Lee, John, Neweastle-upon-Tyne, manufacturing chemist, for improvements in the manufacture of chlorine.—August 4.

Lejeune, Jules, North-place, Cumberland-market, manufacturing-chemist, for a means of condensing and collecting the sulphurous and metallic vapours which are evolved in the treatment by heat of all kinds of ores.—November 4.

Moleyns, Frederick de, Cheltenham, gent., for certain improvements in the production or development of electricity and the application of electri-city for the obtainment of illumination and motion.—August 21.

Normandy, Alphonse Rene Le Mire de, Red-crosssquare, Cripplegate, doctor of medicine, for certain improvements in the manufacture of soap. - Sept.8.

Parkes, Alexander, Birmingham, artist, for certain improvements in the production of works of art in metals by electric deposition.—March 29.

Pattinson, High Lee, Bensham-grove Gatesbead, manufacturing chemist, for improvements in the manufacture of white lead, part of which improvements are applicable to the manufacture of magnesia and its salts.—September 24.

Payne, Charles, South Lambeth, chemist, for improvements in preserving vegetable matters where metallic and earthy solutions are employed.

Pinkus, Henry, Maddox-street, St. George's, Hanover-square, for an improved method or methods of applying electrical currents, or electricity either frictional, atmospheric, voltaic, or electromagnetic.--May 14.

Shanks, James, St. Helen's, Laucashire, chemist, for improvements in the manufacture of carbonate of soda.-May 27.

Thomson, Anthony Todd, Hind-street, Manchester-square, doctor of medicine, for an improved method of manufacturing calomel and corresive sublimate.—March 8.

Wheatstone Charles, Conduit-street, gent., for improvements in producing, regulating, and ap-

plying electric currents .- July 7. Young, James, Newton-le-Willows, Laneashire, chemist, for certain improvements in the manufacture of ammonia and the salts of ammonia, and in apparatus for combining ammonia, carbonic acid, and other gases with liquids.-November 11.

FOR INVENTIONS IN FOREIGN COUNTRIES.

January 11. [Arranged Chronologically.]
January 11. For improvements in impregnating and preserving wood and timber for various

useful purposes.—Uzielli, Matthew.

January 26. For improvements in evaporating fluids, applicable to the manufacture of salt, and to other purposes where evaporation of fluids is required.—Furnival, John Bradford.

February 15. For improvements in obtaining a concentrated extract of hops, which the inventor denominates "Humuline." — Newton, William Edward.

February 22. For improvements in the process Hancock, William, jun., King-square, Middle- of and apparatus for purifying and disinfecting admiring crowd.

greasy and oily substances or matters both animal and vegetable.—Newton, William.

March 8. For improvements in preserving animal and vegetable substances and liquids.-Wertheimer, John.

March 17. For improvements in the manufacture of the carbonates of soda and potash,-Clough, William Thompson.

June 26. For improvements in producing and applying heat.—Poole, Moses.

July 13. For improvements of steam-baths and other baths,—Poole, Moses.

July 21. For certain improvements in the production of sal-ammoniae and in the purification of gas for illumination.—Philippi, Frederick Theo-

November 9. For certain improvements in the production of ammonia,—Newton, William Edw. [From Prichard's List of Patents for 1841.

ROUGH REPORTS FROM GUY'S HOSPITAL

Rupture of the Cephalic Vein with Laceration of the Biceps, and Treatment by Transfusion. JOHN CHART, carman, act. 33, maimed, admitted into Guy's Hospital, Nov. 19, t842, at 8, P.M. He was thrown from his horse, and the wheel of the dray passed over his arm and body, from behind, forwards. Profuse bleeding immediately took place, which was not restrained till his admission into the hospital. His habits of life had been regular, and his general life good. A contused wound over the front part of the right arm, partly tearing asunder the biceps and dividing a large vein, supposed to be the cephalic (?) from the manner in which the accident occurred, rolling the biceps inward and consequently allowing the basilie to lie underneath. A roller was applied round the fore-arm, from the wrist to the wound, and cold lotion applied .- 20th, slight onzing took place during the night, but nothing of importance.-to, A.M. Swelling of the limb had taken place during the night, and was extremely painful. The bandage was then removed and cold water applied. - 6, P.M. Great effusion of blood from the elbow to the shoulder joint and under the pectoral muscle. -9, v.w., Great depression; and it was deemed advisable to tie the vein, but the bleeding shortly after ceasing and the ecchymosed appearance not spreading, that operation was not performed, the wound, however, was enlarged. -11. P.M Mustard poultice, Hyd. Chlorid. p. opii, a a grs. ij. s. s. As it was evident he could not live much longer, transfusion was had recourse to, and two gentlemen immediately consented to supply the fluid. The left basilie vein was consequently laid open, and 18 or 20 ounces of blood injected, which produced symptoms of marked improvement; his pulse became stronger, and his countenance improved; previous to the operation he vomited once.—21st. 4 s.m. The symptoms of improvement did not increase, but remained at par.-6. A.M. Vomiting recommended and continued till his death with but little intermission. His face became exceedingly pale and anxious. Effusion of blood in fore-arm not increased. At 8 A.M., slight motion .--10 A.M. Hyd. Chlorid. gr. i. p. opii, gr. i. s. s. brandy, beef tea and arrow-root.-Il. AM. Pulse scarcely perceptible; hurried respiration; eyes suffused: part of injection returned; enema.-1. r.m. Several large vesicles appeared over the shoulder-joint.— $\widetilde{\Sigma}_{z}^{1}$, P.M. ed.

ON DIT.-Two gentlemen occupying the situation of dressers at Guy's, having quarrelled and exchanged blows in the Square, went out by agreement on Wednesday noon into St. Thomas Street, and enjoyed all the pleasures of a pugilistic encounter, surrounded by an

PERISCOPE OF THE WEEK.

EXTRAORDINARY CASE OF TWINS -Dr. Jameson," of Dublin, was called on the 3d of April last to a lady, thirty years of age, the mother of four living children, who had been delivered on the preceding 13th of February of a son, by a midwife in the county of Wicklow. On that occasion the labour was completed in four hours, and the placenta came away ten minutes afterwards without any subsequent hamorrhage; the patient recovered from this labor, and employed herself in her avocations, but remarked that the abdomen had not much decreased in size, which she attributed to bad swathing; general health good, supply of milk sufficient.-When Dr. Jameson was sent for, she was suffering from severe pains through the abdomen, recurring at uncertain intervals, and lasting about five minutes. On examining the abdomen during a pain, a firm, bard tumor was felt, reaching as high as the umbilieus, which became softer on the subsidence of the pain, and which was at once conjectured to be the gravid uterus. On applying the stethoscope over the tumor, after some difficulty Dr. Jameson thought he heard a placental murmur in the right iliac fossa, but no sound of the feetal heart, from which he suggested the possibility of his patient's being with child, and then in labor. This idea, from the circumstances previously detailed, was at once repudiated, and a vaginal examination refused; but a short time afterwards, while the doctor was conversing with the husband, he was hurriedly summoned to the bedside of his patient, who told him something was coming from her. On making the examination during a pain, the head of a small child was found presenting with the membranes complete; and on the recurrence of another pain, the child, membranes, and placenta, were expelled together. The bag, which contained very little liquor amnii, was immediately opened, and it was found to contain a dead male child, at about the sixth month of gestation, shrivelled and dark, but not at all putrid or decomposed, and between eight and nine inches long. The cord was small, easily giving way under the fingers, but the placenta appeared to be fully as large as one belonging to a full-grown feetus and healthy. The last time the patient menstruated previous to this pregnancy was in the latter end of April, 1841, and as she was confined on the 13th of February last, forty-two weeks must consequently have clapsed between the last period of menstruction and the birth of the living child, forty-nine weeks between the mentrual period and the evulsion of the dead

PURILENT INFECTION. - A man who died recently at la Charite, from an injury of the head, had fallen on his head, and become insensible. He was carried to the Hotel-Dien, where he found himself so much better the next day that he left immediately; but he had scarcely reached home before he experienced tremblings and symptoms of an accession of fever, for which he was admitted into la Charité under the physician's earc. The fever closely resembled an intermittent, and he was treated accordingly with the sulphate of quinine. He returned home some days afterwards, but continuing to experience rigors, he placed himself under the care of M. Velpeau, who at once pronounced a very different prognosis, and stated that the case would terminate fatally. In addition to the symptoms of intermittent fever, the man was continually feverish, with a dry tongue; he caused the xyphoid cartilage to project very was in a kind of stupor, complained of dull | much, and threw its point forwards; it also pains in different parts of his body, especially in the epigastrium and right hypochondrium, in which there was a large abscess. There down to the middle of the right side; at its lower part it was prominent, hard, and painful, disagreeables. Had I had a fit the danger

was also a large wound on the head, suppurating badly; the cranium was laid bare, and fractured. The man, instead of labouring under intermittent fever, was affected with purulent infection, and died soon afterwards. On examination of the body the skull was found to be fractured, but the broken bone was not depressed. The liver contained several large purulent fouers, and some were seen in the lungs. There was also partial peritonitis near the situation of the liver. The tremblings and rigors, which were looked upon as the forerunners of an intermittent fever, are, according to M. Velpeau, the indication of the introduction of a poison into the economy. Thus, when after a painful eatheterism, such symptoms occur, practitioners say that the passing the eatheter has been followed by one or more attacks of ague. This pretended ague, according to the professor, is no other than the indication that, under the influence of a modification with the mechanism of which we are not well acquainted, a certain quantity of urine has penetrated into the economy. It is an urinary affection, and so far from offering only the importance of an ephemeral fever, is on the contrary, a very dangerous symptom, for in many cases it indicates a fatal termination. M. Velpeau gives six or seven examples of this kind.-Sometimes these rigors are followed by arthritis of the knees, feet, and wrists, and suppuration is established with extraordinary rapidity in those articulations. All these symptoms arise from the same cause, the absorption of a poison into the economy, and intermittent fevers themselves have not any other The trembling, which is the first origin. period, is the sign of the introduction of the miasma into the humours. Most frequently. however, this poison is not so violent but that the economy can free itself of it; but, in certain cases of typhus, death follows very rapidly Purulent infection has been said to be nothing else than phlebitis, but M, Velpean, has found the veins not inflamed in a great many cases where the purulent infection was very marked. It is certain that the pus is conveyed with the blood into the parenchymatous organs, where it acts in two ways; it is either transported en masæ into the organ, and forms a deposit there, or else some globules only are deposited, which create irritation in the tissue, produce inflammation, and an abscess forms; it is very certain that this phenomenon may take place without phlebitis. The veins are sometimes healthy. sometimes they are inflamed at a distance from the primitice collection, and it is not necessary to suppose the existence of phlebitis to explain this absorption. The veins which are near the pus may absorb it, and carry it to a distance. There may also be a genuine imbibition, and the inflammation which is so commonly observed may be only the effect, not the cause, of the absorption.

Abscess of the Liver.—The following case is given by Dr. Placida Portal, of Palermo. Giuseppi Capozzi, twenty five years of age, of a bilious temperament and weak constitution, after having had attacks of ague, and after having been cured of syphilis by mercurial treatment, experienced a feeling of weight in the region of the liver, attended with emaciation, constipation, yellow tint of the skin, and pains in the joints. On the 15th of November, 1839, a tumour was discovered in the right hypochondrium, presenting the following appearances :- It began under the right false ribs,

with deep-scated and obscure fluctuation; the skin that covered it was of a natural colour. The patient complained chiefly of pain and weight in the right hypochondrium. The abdomen was hard and distended in the epigastric region, but soft in the hypogastrium; the enormous size of the tumour prevented the patient lying on his back, and forced him to bend forwards when he was sitting. He had anorexia and dyspepsia, and occasionally was troubled with nausea and vomiting of a mucous matter; the tongue was covered with a thin white coat; the face was of a deep yellow colour; the pulse, small, contracted, and slow; cough dry and fatiguing; urine scanty and limpid: the legs adematous; and he had feverish symptoms, with rigors and burning thirst. Under these circumstances. Dr. Portal diagnosed abscess of the liver, which he opened as follows: - He introduced a trocar into the most prominent part of the tumour in the right hypochondrum, where the skin appeared to be thinnest, about two fingers' breadth below the ensiform eartilage. On the withdrawal of the trocar, a thick, very feetid, brownish-coloured pus was discharged. Having next introduced a cannelated sound, he incised longitudinally from without inwards the linea alba and the fibres of the rectus abdominis; then introducing the finger, he dilated the opening to about four inches. An enormous quantity of pus was discharged, containing an infinite number of hydatids of different dimensions, and a pseudo-membrane a foot and a half square. A piece of linen, with simple cerate spread on it was introduced into the wound, a pledget of lint and compresses laid on it, and a body bandage placed over all. The patient was then put to bed and laid on his left side. Four hours after the operation the patient experienced severe pain, attended with high fever; the pain was relieved by the application of thirty leeches, and three poultices successively over the abdomen. He passed a good night, and the next day a large quantity of pus mixed with bile was discharged A canula of gum clastic, five inches long, with a calibre of five lines, was fixed in the opening to facilitate the spontaneous vacation of the pus. Forty-six days after the operation, the wound had completely cicatrised.

HYDROPATHY IN ENGLAND.—Dr. Hastings publishes the following letter of a gentleman, who purchased his experience at the establishment at Malvern. "As for hydropathy as a general specific, it is utter nonsense. Gont and rheumatism are relieved, and some cases of fever it succeeds in, and people of long standing habitual constination seem to have benefitted, but in asthma, tie, acute diseases, dropsy, apoplexy, or surgical eases, it is of course an atter failure. Good is no doubt done by early hours, exercise, and abstinence, but a cure never or rarely effected. Dr. is a conceited, impudent, off-hand sort of a person, and he goes about telling everybody of his success and wondrous cures. He states be has cured Lord ---, but this I do not believe to be the fact. The general class of patients here are old Indians from Cheltenham, hypochondriacal ladies, and dyspeptics. is useful in hydropathy will be added to general practice, and then it will follow St. John Long, mustard-seed, and brandy and salt. The system is new, and may, perhaps, last a year or two. On my arrival here I was subjected to the sweating process-four blankets and a feather-bed over me-and in ten minutes 1 felt giddy, the room ran round, lights came before my eyes, and just before consciousness departed

would have been imminent. I therefore gave up all idea of submitting to further mountebank folly. The whole affair is a humbug, as far as its being a universal cure.

URINABY FISTULA.-M. II. Larry communicates a very curious case of urinary fistula cured by operation. The subject of the case was a female who had been long subject to urinary fistula situate beneath the umbilicus; the disease originated in inflammation of an ovarian eyst, containing hair, which had communicated on one side with the bladder, and on the other with the parietes of the abdomen. The contents of the cyst, composed of viscid and purulent matter, bairs, and calcareous concretions, had been discharged, at various times from both orifices. At length a large calculus formed in the bladder, and, getting entangled in the opening of the wrethra had forced the urine to issue, almost constantly, through the fistulous orifice in the abdomen. After considerable reflection, M. Larry determined on performing an operation founded on the principle of lithotomy, as practised above the pubes. With this object he divided the fistula freely inferiorly, exposed the cyst, extirpated a tumour to which adhered a long lock of hair, and followed the latter into the bladder, where it formed the nucleus of the stone, which he removed. The immediate effects of this very formidable operation were comparatively mild, and the patient recovered perfectly.

ENGORGEMENT OF THE UTERUS. - Dr. Clement Ollivier, of Angers, speaks strongly against the use of differently shaped pessaries, which are employed indiscriminately for prolapsus uteri, without paying attention to the eanse of the prolapsus, which, according to Dr. Ollivier, is nothing more than engorgement. Dr. Ollivier considers masturbation one of the most frequent causes of this affection in young girls, with whom it is very rare. By gradually inducing disorder in the nterine functions, it gives rise at first to a spasm of the organ, which affects the secretion of the menstrua; on the other hand, this excitement, if frequently repeated, finally brings on a more or less intense sanguineous congestion, which gives rise to a kind of impermeability of the uterine parenelryma, caused by a slight inflammatory affection: then the dysmenorrhoea, at a latter period, becoming habitual, induces amenorrhoea, which ultimately determines more dangerous diseases. Sterility is always an inevitable result, unless the diseased state of the uterus being arrested, allows those portions of the viscus which continue healthy to perform their functions; the catamenia may then reappear, but are almost always accompanied by uterine colies; the matrix may recover its powers of conception, but during gestation a period arrives when the uterus, not being able to enlarge freely, on account of the inflammatory action it has undergone before conception, reacts upon the product it contains, and almost always determines an abortion; in this way the pregnancies of women affected with morbid conditions of the uterns almost always terminate. - Masturbation. in eausing a disordered condition of the entire uterus, produces more frequently an engorgement of the body of the organ rather than of the neck, whilst an exactly contrary condition obtains in women who have connection with men. In virgins the affection of the body of the uterus is more frequently found, that of the cervix uteri more racely. Dr. Ollivier mentions, among other causes of engorgement of the uterns, the irritation of the sexual organs by primary connection, a cause of irritation of the organ the more dangerous, that it has hitherto escaped the notice of medical men, either because they do not attach sufficient ini-

them the knowledge of their illness, notwithstanding the sufferings they endure.—The dysmenorrhora, which almost always follows abortions, is the result of an inflammatory engorgement more or less considerable, and susceptible of cure; this engorgement is the cause of the sterility that follows misearriages.

THE STARCH APPARATUS FOR FRAC-TURES .- One great objection to this apparatus has been, that when once put on, it remains a hard case round the limb, allowing no room for the necessary degree of tumefaction, and consequently endangering the safety of the member by inducing gangrene; and that, as the parts were hid from view, no timely warning was afforded of such accidents. According to the Dublin Journal, the inventor, M. Seutin, has now obviated this objection. He first applies a calico-roller, moderately firm, round the leg; no starch put on the inside of this bandage, as it would stick in the hairs, and prove unpleasant to the skin when it hardened. After it is applied some starch is smeared along its surface; wherever pressure is wished to be avoided pledgets of soft lint are put; a soft pasteboard splint, a little starched on the inside, is then placed on each side of the leg, and then one behind the part about the heel and the hollow of the tendo Achillis being well stuffed with lint; a pasteboard splint is also put in front. These are secured by a bandage smeared with starch, the end of the bandage being turned down and stuck in front, so as to be easily found. More starched bandage was applied, till the whole was a firm and smooth ease. This should be left for twenty-four hours; when it has become quite dry, it is then slit down along the whole front of the outside, in the space between the tibia and fibula, down to the end of the foot. When the sides of the opening are held aside, the state of the limb can be examined. If it is found to press too much on any part, a little lint can be inserted, so as to raise the apparatus from the place pressed on; should it be desirable, any part of it covering a wound, &c., can be cut away, to allow the proper dressings to be applied, and the discharge to be removed. Long bandages are preferred wherever it is requisite to establish a regular compression, and that the lifting up of the injured part may not entail inconvenience to the patient, sharp pain, derangement in the coaptation, &c. Short handages, are reserved for contrary eases; they are disposed generally in three planes; it is between the layer in contact with the skin and the middle layer, that the pasteboard splints are generally placed; short bandages are especially employed in lesions of the pelvic extremity. The length or breadth of the bandages is proportioned to the part which ought to be covered with them. Folds should be repeated as seldom as possible, and never on bony eminences or excrescences, which should be defended by layers of wadding, lint, or some other such material, hesides the bandage. It is important to leave uncovered the ends of the fingers or toes, whose variations of color and of temperature furnish a sufficiently just measure of the analogous changes of the other parts of the limb covered by the bandage. The compression exerted by this apparatus ought never to reach to that degree of violent constriction which practitioners, as little familiarised with M Sentin's method as with the general princiles of compression, have believed to be necessary for the resolution or prevention of inflammation. Compression, as understood by M. Seutin, eight to stop at a gentle methodical pressure, sufficient to moderate the afflux of blood, but not to stop it - a pressure which, in many circumstances, at the instant of its appli-

portance to it, or because women conceal from cation, is only retentive, and which never acts on the soft parts, so as to be able to induce mortification in their fissues. The pressure should always be made to act from the extremities to the centre as evenly as possible, care being taken to avoid its immediate action on bony or tendinous prominences, excrescences, The starch apparatus dries in the course of from thirty to forty hours after its application, but its desiccation may be aided by the employment of artificial heat, if needed, which, however, is better avoided, if possible. Unless the patient complain of pain, or much uneasiness in the injured limb, or the surgeon entertains fears of the state of the soft parts, it would be as well to defer the section of the bandage to the second or fourth day, when, if the apparatus fulfil the views proposed, it is made seenre again with a starched bandage; if it exercise too much pressure, the edges must be separated, the interval being filled up with a little softened pasteboard; the exterior surface is then to be smeared with starch, and the apparatus surrounded by a starched bandage, very little compressed. Folds and plaits that press the skin irregularly are to be removed; the pieces that exercise injurious local pressure are to be wetted slightly with water; pieces of lint are to be inserted where necessary, and the whole to be surrounded by the starch bandage, care being taken to make a daily inspection to see that all is right. If the apparatus appear defective in any particular, it should be removed, having been previously wetted with tepid water, and replaced by another, less objectionable.

> Calculus Vesic.E.-M. Dienlafey publishes several interesting cases with respect to the shape of the calculus in the bladder. He performed the lateral operation on a child, five years old, in whose bladder he previously had discovered a calenlus by means of catheterism, the presence of which he also ascertained by passing the index finger into the bladder, but which he could not touch with the forceps when he had passed them into the viscus. The instrument was frequently passed into the bladder, but each time unavailingly; he found it impossible to lay hold of the calculus, the presence of which he had nevertheless fully determined by the finger and the catheter. The surgeon was very much perplexed by this, when his assistant opening the blades of the forceps to clean them, discovered a calculus, about the size of a little pea, in the midst of elotted blood in the teeth of one of the blades. During the monceuvres of the operator, the calculus had lodged in the teeth of the blades, and as it was not large enough to prevent their closing, its taking that position had not been noticed. The operation having thus terminated, the little patient speedily recovered; M. Dieulafey drew the conclusion, that, in every case of lithotomy, the blades of the forceps should be examined after they have been withdrawn from the bladder. In another operation of this kind, the same surgeon, after having ascertained the presence of the calculus in the bladder, introduced the forceps several times without being able to seize it. The blades were examined each time they were withdrawn from the bladder, but they did not contain the calculus, which was ultimately discovered in front of the incision, in a kind of eavity which opened in the membranous portion of the nrethra, where its narrow and elongated form had allowed its entrance. The painful and fruitless researches which had been had recourse to, were not attended with any injurious results. In another child, searcely two years old, although the stone could be felt with the finger, it could not be seized with the forceps in whatever direc

tion they were inclined. The calculus was situated behind the prostate upon the trigonum of the bladder, and it was necessary to use the curved forceps to enable the operator to extract it. The calculus was perfectly round, of the size of half a franc in diameter, and exceedingly thin. M. Dieulafey attributes all the difficulties of the operation to the peculiar shape of the calculus.

ANTIBOTE FOR CORROSIVE SUBLIMATE. M. Mialhe says he has discovered from experiments that hydrated proto-sulphuret of iron, a perfectly inert substance, instantly decomposes corresive sublimate; protochloride of iron and bisulphuret of mercury, two inert substances, are formed, from which valuable property he designates this sulphuret of iron as the best antidote for the violent poison alluded to. When a small quantity of bichloride of mercury is taken into the mouth, there is speedily experienced an insupportable and characteristic metallic taste. If now, the mouth be gargled with the hydrated sulphuret, in a thick state, such as it should always be used in, the mercurial taste is removed as if by enchantment. The antidote is not limited in its effects to the mercurial salts, it is equally useful in counteracting the deleterious operation of several other metallic salts, especially those of copper and of lead. The following is the mode of preparing the hydrated proto-sulphuret of iron: - Dissolve any quantity of pure protosulphate of iron in at least twenty times its weight of distilled water, deprived of air by boiling, and precipitate the iron with a sufficient quantity of sulphuret of sodium, dissolved also in distilled water, deprived of air. Wash the protosulphuret thus obtained with distilled water, and preserve it in stoppered bottles, filled with boiled distilled water. Although the preparation of this sulphuret of iron is very simple, and may be effected in a few minutes, yet it would be desirable to keep it always prepared, that no time may be namecessarily lost in any case of poisoning. The precaution of preserving this sulplinret out of contact of the air, must be strictly observed, as it has a great tendency to pass into the state of sulphate.

BLACK DROY.—The following is said to be the original recipe published by Dr. Armstrong, for black drop:—Take of Opium lbss., Good Verjuice Oiij., Nutmegs \(\frac{2}{3}\)iss., Saffron \(\frac{2}{3}\)ss. Boil to a proper thickness, then add two spoonfuls of yeast, set the whole in a warm place near the fire, for six or eight weeks, then in the open air, till it becomes (the consistence of) a syrup, when it is to be decanted, filtered, and bottled up, with a little sugar added to each bottle; one drop equals three of tineture of opium.

Tests for Arsenic.—Meillet prepares pure zinc by first fusing commercial zinc and throwing it into hot water, by which it is obtained in the form of large grains. These are placed in a Hessian crucible, with alternate layers of saltpetre, equal to a quarter their weight; the crucible is covered and heated until the nitre burns and the zine is perfectly fused; the slag is then removed, and the perfeetly pure zinc poured out. Fordos and Gelishave remarked that the purest zinc, when treated with strong sulphuric acid, gives off traces of sulphuretted hydrogen, arising from the reduction of the sulphuric acid. Hydrochloric acid, which, as is well known, often contains sulphurous acid, also gives traces suphurous acid, also gives traces the same gas, evidently derived from the of sulphurous acid. Chevallier had already proved that Marsh's apparatus is not applicable to testing for arsenic when it is in the form of sulphuret; and consequently if much sulphuretted hydrogen were formed, the

whole of the arsenic present would be converted into sulphuret, and the spots obtained will be yellowish. The spots obtained by Danger and Flaudin are referable to this cause; the organic matters not being completely carbonised, sulphite of ammonia was produced; the sulphurous acid by its reduction gave rise to sulphur, and consequently sulphuret of arsenic, and the spots were therefore yellow. Wackenroder has proposed several methods to determine whether the spots obtained are owing to arsenic or to antimony; the only one which need be noticed depends on the crystalline form of arsenious acid. A metallic film having been produced, the tube (open at both ends) is held in a slanting position, and the ring is heated; a deposit is produced some distance from the place where thering was, and which may be either arsenions acid or oxide of antimony. The tube is carefully broken, and one of the pieces brought under a microscope with a magnifying power of 900. If the crystals are regular octohedrons, they are arsenious acid; but if prismatic, oxide of antimony. This oxide never forms octo-hedral crystals, but only prisms.

On Aroma,-In the course of Chemical investigation, we are often surprised with the emission of odour, while we are unable to account for this peculiarity. An interchange of elements by the decomposition of two inodorous compounds, produces an effect powerfully fragrant and pungent. In the whole range of substances with which we are acquainted, there is not one more capable of cheiting aroma than ammonia. All volatile bodies are of course apt to increase the fragrance of a substance, by carrying the vapour with rapidity to the nasal organs, and diffusing it over a greater amount of surface. Ammonia, however, seems to possess a greater power than is dependent upon mere volatility. To illustrate this, Mr. gives the following experiment: -1 placed in a small still a watery solution of ammonia, and added a solution of essential oil of lemons and nutmegs in spirits of wine. The proportions of oil of lemons and oil of nutmegs were very small; the former being half a drop, and the laiter nne-eighth of a drop to each pint of fluid. Having adapted the head, I drew earefully over a quantity of spirit corresponding to spirituous solution added, and found it produce a spirit impregnated with ammonia, but of a very fragrant character. Its aromatic power was perceptible as well in its strong state as when reduced with water. The liquid remaining in the still, sent forth very fragrant exhalations, more particularly of the nutureg. When we consider the minute proportions of aromatic essential oils employed, it certainly appears a case confirmatory of the statement of M. Robiquet, that ammonia lends as it were its volatility to bodies, the odour of which, without such an auxiliary, would be scarcely perceptible. Although the fact of the ammonia being in this case the exciting agent is evident, yet it is singular that after all the ammonial vapour has been driven over, the caput mortuum should retain a strong aromatic flavour. The subject of aroma is, however, altogether, involved in comparative obscurity. We know that some proprietary perfumes have gained celebrity, and from what circumstances?—the discovery of a new odoriferous plant or oil?—No: but simply because the essential oils are mixed in certain proportions with spirit of wine. Some metals having no odour, emit most powerful exhalations when combined with an inodorous substance. In the manufacture of British Ean de Cologue, it is well known that the addition of a small quantity of the oil of orange flower. (Neroli) alters the character of the perfume, and many other cases might be enumerated,

Among the investigators of the subject of aroma, we may mention M. Fourerov, who supposed that odours were merely the effect of simple solution of certain bodies in air. But M Robiquet is much more cooclusive and explicit. He says, when speaking on this subject, " aroma in many instances requires, for its development, the addition of some third body, which, though in itself possessing none of the characteristic odour, yet is absolutely necessary as an intermede, varying in its nature according to that of each odorous substance, as the mordaunt requires to be varied by the dyer, according to the nature of the colouring matter which it is intended to fix upon the cloth." This is certainly a plausible theory, and one which explains many of the singular effects produced by the mixture of substances in reference to smell. But does the addition of the third body, referred to above, not cause an alteration in the particles of the various bodies, thus preventing the organs of taste and smell discovering the predominance of a single ingredient, but receiving all as a new compound? The change is completed instantaneously and frequently, without any appearance of decomposition or chemical action, and sometimes without even difference of colour; can we, then, attribute the changes to a mechanical transposition of the particles of the substances combined, increased or destroyed according to the quantity of some one ingredient, which, when added, seems to usurp an authority, which it evercises by displacing the particles of other bodies, keeping itself concealed, but showing its presence by so far altering the odour of the compound? The subject thus briefly referred to is one of great interest, and may yet attract the notice of some able investigators.

LIQUOR OF HYDRIODATE OF ARSENIC AND MERCURY .- The diseases in which practitioners have hitherto found the liquor of hydriodate of arsenic and mercury to be useful are the various formsof pseriests, impetigo, porrigo, lepra, venereal emptions, both papular and scaly, pity-riasis, sycosis, ep helis, lupus, sibens, and some uterine diseases. The dose has been variously represented; Dr. Kirby is disinclined to doses exeeeding twenty minims, and this quantity, he conceives sufficient to secure its curative effects. In venereal eruptions, Mr. Cusack found Hi, or Fig. three times a day sufficient; but even when larger doses were given he did not observe any unpleasant consequences. It is certainly prudent to begin with Dr. Kirby's dose; but after a while a state of tolerance is induced, and then the medicine may be gradually increased at discretion

LUBANSKI ON THE URINE OF PREGNANT Women.- It is seldom as acid as in other individuals, occasionally it is neutral, and sometimes alkaline, and generally light coloured. Donne suspected that the salts of lime for the mostpart are diminished during pregnancy, and that a part of them is taken to supply the materials for the formation of the fætal bone; and he found in many experiments, instituted for this purpose, that by the addition of thirty parts of hydro chloride of lime to fifty parts of urine, there was a precipitate of from forty to fifty parts of salt of urine in common urine, whereas in that of pregnancy, the most he ever detect d was thirty, and very often not near so much. Before making the experiment, the urine to be tried must be tested, to ascertain if it be alkaline or acid; and if acid, a few drops of ammonia must be added to render it alkaline, since the precipitate from phosphate of lime is soluble in weak acids. It the experiment be made with a solution of buryta, there will be in healthy urine a precipitate of from Iwelve

to fifteen parts of salts of baryta; in the preguant, from five to eight. After twelve hours' rest, Lubanski found it decisive in three cases of pregnancy, where manual examination and auscultation proved unavailing. He proposes the following questions for investigation:—1. At what period of pregnancy does this diminution of the salts of nrine take place? 2. Is it always constant? 3. In what relation does it stand to the increase of feetal ossification? -1. At what period does it cease? With reference to the question of pregnancy, Donne has, out of thirty-six cases, only twice been deceived.
Something Strange. The Vorkshireman,

gives the following morecau on the authority of an anonymous correspondent writing from Bredlington. Our readers must take it for what it is worth. "Nature certainly occasionally stepped out of her way to produce extraordinary specimens of the human species. We have heard of ladies with four legs, but no arms; women with no hands, and who knit, write, and sew, with their toes; and various other natural curiosities, all of which sink into insignificance when compared with Franceina Kroon, a native of Wyk, by Dunsteede, in the Netherlands, about sixty miles from Rotterdam. She is a female of lady-like manners, and pleasing exterior, about thirty-six years of age. She is from the breast downwards covered with elongated beads, of a dark brown colour, these (incredible as it may appear) indubitably grow out of the skin, and are, to all appearance, as hard as stone; they occasionally shell off, and leave the skin bare for a short time. On their re-appearance they have a setaceous look, resembling a strong board on the face of a man. All this time the skin is beautifully white, soft, and quite flexible, and may be rubbed double between the fingers. Her knees and elbows are covered with an assified substance, rean oyster shell in hardness, colour, and general appearance. Her hands and feet are covered with a kind of shell which, when held before a strong light, is transparent, and has the look of a petrified shell, and is undoubtedly a muscular substance ossified. Many of these peel off towards the end of the autumn, and disappear in the spring; one large piece, resembling a claw, is at the present time about dropping from the left foot. The fingers and toes are scparated, and it is only between the latter that the skin is perceptible, and it is quite evident from their appearance that, but for the constant friction, they would be covered similarly to the rest. The bottom of the feet have an incrustation of a whitish horn colour, and is as hard as stone, and transparent as horn itself. There is a genial warmth through the whole frame-this living curiosity has a general run of good health, is of affable and agreeable manners, and takes considerable pains to satisfy the curiosity of her visitors. She is about to visit York and Scarborough, and thence into the north; and will doubtless, become an interesting study for the numerous naturalists, physiologists, and talented medical men with which those places abound."

MEDICAL NEWS.

MESMERIC OPERATION. - In addition to this extraordinary feat in surgery (Mr. Ward's) we have to add that an operation took place in this parish on the 19th August, when a medical gentleman, to cure a contraction in the knee joint, put a female in a mesmerie trance, and while she was in that state, divided the hamstring muscles without her being conscious of the eircumstance; and we are happy to add that the individual now walks with facility,-Hampshire Telegraph.

A MEDICAL CONSULTATION IN THE EAST. Whilst I was stationed in Cephalonia, one of the wealthiest merchants of Argostoli a native, was seized with fever, and became so dangerously ill that his life was despaired of. was requested to see him in consultation. In the ante-room of the patient's bedchamber the family were assembled, the ladies regularly scated as on an occasion of ceremony. Three physicians of the town were present. After examining the sick man, who, strange to say, considered himself then actually dead, and spoke of the folly of prescribing for a dead man, and who, in consequence, after his recovery, was facetionsly called by his friends, il morto-after inquiring into his present symptoms, we adjourned to the ante-room, and, in the presence of the assembled company, discussed the case; and this was done by the Greek physicians in the most formal manner, each in turn giving a kind of clinical lecture, in which the history of the disease was traced, the rationale of the symptoms given, the supposed exact nature of the malady, and its nosological place assigned, and a mode of treatment proposed, founded on the views taken. It was an ingenious theoretical display of ability, each striving to appear to most advantage; but it need hardly be observed, that it was better adapted to impress an audience with the eleverness of the speakers, than to be of practical use to the patient. In the discussion there was no reserve in the use of terms, on account of female ears: no indelicacies seem to have been imagined by either

party.—Davy's Notes on the Ionian Islands.
Obituary.—We regret to have to announce the death of Mr. Daniel Cooper, the Editor of the " Microscopic Journal."

Sense of Honour.-We are authorized to announce, that Mr. Erasmus Wilson has thrown up his management of the "The Lancet."

MEETINGS FOR THE ENSUING WEEK.

Medical Society of London, 8 p.m. Dec. 12, Monday, 13, Tuesday,

11, Wednesday

Medical Society of London, 8 p.m. Geographical Society, 8½ p.m. Ray, Med. and Chir. Society, 8½ p.m. Zoological Society, 8½ p.m. Ray, Medico-Botanical Society, 8 p.m. Geological Society, 8½ p.m. Harmaceutical Society, 8½ p.m. Rayal Society, 8½ p.m. Royal Society, 8½ p.m. Botanical Society, 8 p.m. Westminster Medical Society, 8 p.m. Mathematical Society, 8 p.m. Mathematical Society, 8 p.m. 15, Thursday,

16, Friday, 17, Saturday,

ROYAL COLLEGE OF SURGEONS LONDON.

List of gentlemen admitted members on Friday, December 2nd, 1842:-

J. O'Hea, T. Morgan, D. M. Aitken, Dwyre, J. G. Rusher, H. B. L. Brock, T. Bishop, G. Tweddell, C. J. Farr, G. E. Maclaughlin, J. R. King, J. H. Gramshaw.

ADVERTISEMENTS.

MOSLEY'S METALLIC PENS.-The ex-MOSLEY'S METALLIC PENS.—The extraordinary patronage which these celebrated PENS have met with since their first introduction to the public, is a convincing proof of their decided superiority. For ease and smoothness in writing they are equal in every respect to the quill, while their great durability, combined with their cheapness, cannot fail to recommend them to the notice of merchants, bankers, and rithers, where time and legible writing are appreciated. Another proof of their eterling qualities is the circumstance of their being used in most of the Government Establishments, where only articles of a superior description are admirted. To guard against the many spurious insititions that are palmed upon the public, every genuine pen is stamped. "Richard Mosley and Co., London." These pens are solid by all stationers and other respectable pen-dealers throughout the kingdom and wholesale at No. 8, HATTON GARDEN.

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ROYAL COLLEGE OF SURGEONS IN LONDON.

THE COURT of EXAMINERS, having found That COURT OF EXAMITABLE, having found that erroneous statements have lately been published respecting the mode in which gentlemen energed in the Practice of Surgery, may obtain the Diploma of the Cullege: and that other Candidates for the Diploma have experienced difficulty and monvenience tron nartention to the Regulations, by which the required study, has been from time to time augmented, or nominability to comply with the e-Regulations, have

Resolved - That centlemen who were proclising Surgery prior to 1835, he admitted to Examination on producing proofs of such Aus-torned and Sorge, at Laheation as may be deemed suffice at by the Court of Examiners,

That other Candidates be admitted to Examination upon the pro-duction of the several coefficients required by the Regulation in force, when they begin their professional Education by apprentice ship or by attendance on Lee times, or Hospital Practice.

EDMUND BELFOUR, Secretary

CHYER SUPERSEDED and those corrosive CITA FIR SUPPLIES LIPED—and those corrosive by and augment metals, eithed Nacket and Germ in Silver, supplanted by the introduction of a now, and perfectly matchless ALBATA PLATE. C. WATSON, (late AFOFWAR), Il S. 42, BARBICAN, and the Northess Forestart, anded by a person of Science in the amalgamation of Metals, has succeeded in bringing to public notice the most heautiful Article ever yet offered, possessing all the molness of Silver in appearance—with all its distrability and handness—with its perfect is weetness in use—moderosing, as it does, a Chemical Proce s, by which all that is museous in mixed Metals is entirely extracted—resisting all Acids—may be element as Silver, and is Mundacturs into every Article for the Table and Soleboard.

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THE MEDICAL TIMES

A Journal of English and Foreign Medicine and Medical Affairs

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LONDON, SATURDAY, DECEMBER 17, 1812.

FOURPENCE

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COURSE OF LECTURES ON THE DIAG-NOSIS, PATHOLOGY AND TREATMENT OF DISEASES OF THE NERVOUS SYS-TEM,

By MARSHALL HALL, M.D., F.R.S., Fellow of the Royal College of Physicians, London, Sc., Sc.

(LECTURE I, Delivered December 2, 1842.)

GENTLEMEN, it is my office to bring before you the subject of the diseases of the nervous system, In introducing the subject to you, I shall go very rapidly through the anatomy and physiology of that system. I do not think I need go very deeply into the science, because many of you have very probably, listened to the more eloquent words that have fallen on this subject from Mr. Gringer in this theatre.

The nervous system is divided usually into two parts: the first has been called the cerebro-spinal. and the second the ganglionic system. You often hear of the phrase spinal marrow, and the question will be for us to discuss what has been meant by that term. I need hardly tell you, that along the spinal canal a chord of nerves runs, which has been very improperly called the spinal marrow. I would venture to eall this a chord of cerebral nerves; for it is quite plain that, from any idea of the subject that we have formed, it is neither more nor less than a chord of nerves proceeding from the cerebrum, and passing along the spinal canal, and out of that into the different members of the body. We will, therefore, view it a few moments as it ought to be viewed, as a mere chord of spinal nerves running along the spinal canal. But there is another view to be taken of the subject, for you have, no doubt, studied the ganglionic system, Now the ganglionic system is traceable through its nerves, also to the spinal canal-at any rate it is traceable to the spinal nerves, and, therefore, the spinal chord may be viewed also as the source of the ganglionic system. Farther than this we have not proceeded. Until very recently we viewed the contents of the spinal canal as a chord of central nerves, and the origin of a part of the ganglionic system. Now, gentlemen, it is very possible to remove the cerebrum, the centre of those nerves, and the ganglionic system, and yet leave another kind of nervous system remaining in the animal body. I shall take this early opportunity of showing you a simple experiment. You see here an animal (a frog), from which the head has been separated, and, of course, I need not tell you, that with the head the brain has been entirely removed; all the viscera have also been removed, and with the viscera every portion of the ganglionic system. Now, I beg leave to repeat,-the cerebrum, the centre of the spinal chord of nerves, and all the ganglionic, have been removed from this animal, and yet when I pinch the extremity, it moves, so as to be obviously perceptible at the remotest part of this theatre. Thus, as I said before, we have here removed the centre of the corebral system, and the entire ganglionic system. | incapable in itself of exciting any muscular motion. | one direction only; that is, from the centre towards

The brain, which we know to be the centre of all the sentient and voluntary nerves has been removed, the ganglionic system has been removed, and yet you observe something remains. Now, gentlemen, that which remains I venture to call in contradistinction from what has been termed a chord of cerebral nerves, and the origin of the ganglionic system—the true spinal marrow. It is plain, in the first place, that it is not a mere chord of nerves; if it were a mere chord of nerves, you might divide it, and then you would intercept its influence. But, if you observe, here, this influence passes not only from one extremity to the other, but it also passes from the one set of extremities to the other set of extremities; thus, it is quite plain that there is a nucleus of nervous matter between the two anterior extremities, and another nucleus between the two posterior extremities, by which these various limbs are united and associated in their motions one with another. Having thus, then, clearly laid before you the distinction which I wish to insist upon; namely, that there is not a division of the nervous system into two parts only, but into three, pervading all the different parts of the whole animal frame, I shall venture to term them, the cerebral, the true spinal, and the ganglionic systems.

The cerebral system has the brain as its centre. It consists of sentient nerves, which proceed from the ultimate parts of the animal frame to the brain, and other nerves which go to the muscles. and which may be termed voluntary. Nerves, therefore, which convey sensation, and nerves which convey volition may be called the ystem of sensation and volition, and I need hardly tell you that between sensation and volition you always see an intellectual operation. There is between all these nerves an organ, the corebrum, for intellectual operation. The cerebral system, then, is the system of sensation, intellectual operations, and of volition and voluntary motions.

Now, I am about to mention a fact to you, which is exceedingly interesting, because of its important application to pathology, and, therefore, to practice. But first of all, I must mention, that the principle which acts in the brain is the immortal With regard to the substance of the brain soul. itself, what I wish to insist on is, that it possesses no power of sensation, and no power of motion; that is, if you take an animal, and lay the brain perfectly bare, and lacerate the brain in every possible way you can devise, you cannot in any manner induce pain or sensation-you cannot in any manner induce muscular motion. This point is so important that I beg leave to repeat it; and, indeed, I may mention a circumstance which will enable any of you at any time without inflicting the slightest suffering to convince yourselves of this fact. Perhaps not many of you have seen the mode in which horses are killed. The usual mode is to take a pole-axe, and strike the horse on the cerebrum, and it falls down instantly. But the horse is not dead; it is not altogether dead to sensation, because most of the brain is entire, and there is a certain portion of that organ which is the organ of sensation. If you take a small instrument, or a cane, and pass it through the circular orifice made, and lacerate and injure the brain surrounding the orifice within, in any way you think proper, you will not induce the slightest pain, neither will you induce the slightest nuscular motion. Therefore, it may be said, that the organ, which is the central organ of sensation, is insensible; that that organ which appeared to be the organ of certain motions, is incapable of exciting motions. This I should mention is one circumstance, which, to my mind, shows that intellectual and sensitive functions are not the functions of mere organized matter. I take it then for granted, that this mass of cerebrum is insensible and

Now with regard to the pathology of the brain, I mean rather to the functional pathology of the cerebral system, I need only tell you it consists of modifications of sensible and of intellectual power and of modifications of voluntary acts. So that where you find morbid sensibilities, and morbid developments of intellectual faculties, and morbid developments of voluntary motions, you may take it for granted, that the brain, as the centre of all the cerebral system is affected. With regard to the therapenties which may be said to have their operation through the cerebral system, I need scarcely say a word. It must consist in what has been called the moral treatment.

Now, Gentlemen, I pass on to the other systemthe true spinal system, and I do it the more readily because I am more than ever anxious to show you how a knowledge of this system is absolutely essential to you, entering on the practice of physic; and the treatment of diseases of the nervous system particularly,-how important it is in diagnosis and prognosis, and how important it is altogether The central part of the true spinal in practice. system is within the spinal canal; I venture to call it in contradistinction to the spinal chord of cerebral nerves, the centre of the ganglionic system, the true spinal marrow. It is the cerebral organ of a number of phenomena and a number of actions, and a number of functions; one or more of these I will show you; indeed I have already shown it in this animal (the frog) which you see to be perfectly alive in that sense of the word. It as it were, a true spinal life; it is neither sensible nor is there any spontaneous or voluntary motion. The organ of sensibility, and, therefore, of voluntary motion, is taken away. There is no ganglionic system, and nothing is left but the true spinal system; the true spinal marrow; the nerves that run into it, and the nerves that run out of it. The first characteristic of this system is, that it is carried on through the inedium of incident and reflex nerves. For, what takes place when you inflict a wound on the too? Of course, it is quite certain that the impression induced, produces some change, running along the nerves, and these carry it to the spinal marrow, by which it is reflected back again to the muscles, and so it is that the limbs are eansed to move. You see, therefore, that the anatomy is characterised by one special word; it is incident and reflex. The incident nerves run up to the spinal marrow, the reflex nerves run from that organ, and whenever we produce a motion, we produce it through the medium of this system; we produce it through the medium of this peculiar anatomy It passes from the point intimated, up to the spinal marrow and thence down to the muscles. So the operation is altogether reflex, at least, there are only one or two exceptions in the animal frame to this very general rule.

The next point to which I wish to draw your attention is the peculiar property, faculty, or function of this spinal marrow. A very short time ago I said, lacerate the cerebrum as you may, you cannot produce either sensation 'or motion, but the moment you make an experiment, and touch the true spinal marrow, then the whole muscular frame is thrown into violent convulsions. The true spinal marrow then is excito-motor. The brain is in-excitor. This power was described by Haller as the vis nerrosa, because it exists not only in the spinal marrow, but also in the different nerves going from it. If the nerve is irritated, the muscle to which it is distributed, is thrown into contraction. If instead of irritating the nerve, you irritate the spinal marrow, you produce contraction in all the muscles which receive their nerves from below the part irritated. Haller and Müller, and all the authorities, have said hitherto that this vis nervosa acts in

the circumference, from the spinal marrow towards the muscle to which the nerve goes; but by recent experiments, it has been determined that this is not true, in fact, that another law besides this, which may be considered the direct law, obtains with regard to this peculiar function. If in the lower order of animals, if in the cold blooded animals, you irritate the spinal marrow, the muscles, the nerves of which take their origin below that point will be called into action, but a number of muscles that receive their nerves from above the parts irritated are also called into action. In this case the influence presents both a direct and retrograde action and the same power acts upwards, and to the right and to the left, to the superior extremities, and to the inferior extremities. In the former direction its agency is not so energetic as in the latter. If you irritate one of the cutaneous nerves coming from the skin, if in the cold-blooded animals, you have still the same action as before. What must have taken place? The energy of the vis nervosa must have been excited, and an influence sent in an incident direction, then in an upward or retrograde direction, as well as downwards, to both sets of extremities. It acts first of all in an incident direction, then upwards, then downwards, and lastly into both sets of extremities. It is exceedingly important to notice this with various objects; in the first place to correct the erroneous view which has been laid down by the physiologists I have mentioned, and others, that this power acted only in one direction, that is from the spinal marrow to the extremities of the nerves; and secondly, to set forth this new law, viz, that it acts in the opposite direction, in a retrograde manner as well as to the extremities, and lastly, in an incident direction, which may be called retrograde with 10gard to the nerve.

We have now a very clear view of the mode of operation of this evilo-motor function—these incident and reflex nerves—this reflex action. Now the question comes to be, whether we have any applications of this function? whether this function be created in vain? or whether there be a set of phenomena and functions connected with this source of function -this mater power? Gentlemen, it would be very extraordinary if the power did exist, and therefore were created, without an end or without a design. But there is a vast design here; for there is precisely a parallel series of functions to be performed through the medium of this excito-motor principle. Before referring to these functions, I will first of all give you a list of them: in the first place, there are the orifices into the body-these are guarded by that function; in the second place, there is ingestion, and, for instance, inspiration and deglutitionthese are all conducted under the influence of this power; then there are the acts of expulsion, the expulsion of the forces and the semen-all these expulsions are conducted in various degrees under the influence of this power; and, lastly, there are certain organs that prevent certain materials that ought to be retained in the body, from being expelled from the body - all the sphineters are under the immediate influence of this power.

When I go over the subject anew, as I do at this moment, just talking to you as I would to my intimate friends in common conversation, I do confess the subject strikes me with a little wonder at its extent and magnitude.

I say, then, that ingestion and expulsion depend on this excito-notor power. Formerly, we knew one part of the nervous function exteriorly to be, that of the cerebral system-destined for the observation of external nature-to obtain a mental knowledge of the objects seen around us. This is the function of our mental relation with external things. There is another function formerly well known; that is, substances which are taken into the interior animal frame, are diffused soas to nourish all parts, to be taken up, and carried away from the system by other organs, and so on. This, of course I need not say, is performed by the gaughoide system. The cerebral system, by which we have relation with the external world, is well known; the ganglionic system, which makes use of every thing taken into the interior, also is very well known. But I believe it was never

taken into the interior of the animal frame, to be so made use of, and other substances rejected from it. To say one word respecting the most considerable, the most important, and the most extensive of these functions-respiration. We breathe for ever; from the beginning of man to the close of life, we do not cease to breathe. This act of breathing is entirely under the influence of this escitomotor power. From the moment the feetus is born -the moment it passes from a warm medium into a cold medium—the moment this takes place, the whole surface of the body is convulsed by the cold medium, and immediately, through the medium of this excito-mutor system, inspiration is excited, as under the influence of cold water. On going into a cold bath it is totally impossible to suppress sadden acts of inspiration, which are called into action in a moment.

Here, then, we have one of those phenomena never explained until the eccito-mater system was explained by myself. In fact, I may say, former physiologists were obviously wrong on this point, who, including Müller, and after him Sir Charles Bell, supposed the medulla oblongata as the exciting cause of acts of respiration. Now the medulla oblongata is not the exciting cause of any acts of respiration; in fact, every act of inspiration is caused by and through the nerves going from the exterior to the interior, through every joint of the body to the medulla oblengata, through the medium of the excito-motor power, as the source from which the nerves that pass through the system receive their excitement. One very interesting point appears to me, that so far from the medulla blongata being an excitor of inspiration, it is not the excitor of any physiological effort; but it is the excitor power imder certain circumstances of acts. For instance, in the state of pathological usphycia, which takes place when you put an animal under cold water, what are the phenomena of asplaycia? They have been all confounded with the act of respiration, and with the lungs by the act of expiration. If you induce asphyxia in an animal under water in a temperature of 98 deg., I bog you to observe, that it is quite astonishing how soon the struggles end. It is quite astonishing how soon the brain is poisoned and insensibility induced by the circulation of undeglutinized matter. These struggles cease almost in an instant, and then what takes place? It has been said that attempts at inspiration take place. Gentlemen, this is not the fact; and I have continually and repeatedly assured you, and so have others in this room, that respiratory efforts are not efforts of inspiration, but expiration. Take a young frog, and you observe the system is thrown into a state of exhanstion; the stomach is compressed as well as the lungs, and a vomiting is produced by this apparent act of expiration; the act is not only one of expiration, but it is produced by the power of undeglutinized blood on the central part of the spinal system. Here we have action obtained by that mode; here is the primum mobile, and here it ceases to be a physiological act, and becomes a pathological act; and it is quite extraordinary how important the diagnosis comes to be. I will illustrate the subject by another example which I think will strike you all. Have we not in all works on pathology, universally seen that tetanus and hydrophobia are linked together, as being discases of the same character, and produced in the same manner; and, in fact, having the same pathology? Gentlemen, it is so far from being the case, that uniformly tetavas is a reflex action excited through the medium of incident nerves, which produce their effect on the spinal marrow which spreads the action over the whole muscular Whereas, in hydrophobia, the blood is system. poisoued, and the blood acts on the spinal marrow: as in the one case you have incident or reflected action, in the other you have the spinal action. In the one the action is produced by the medium of the incident nerves, and the other action is produced through the medium of the blood on the spinal marrow, carrying its poison through the cerebral system, and thence to themselves and nerves, and is reflected, and so every muscle is affected in this case. Then, I have said, I would only illustrate the subject by determined by what power certain substances are one case; but there is another fact so very im- illustrations in my work on the nervous system,

portant, that I must mention it. It has long been a question with some, how morbid agents act on the animal frame? How do poisons act? You find in all works they have been divided between the vascular system and the nervous system, and some have been so unphilosophical as to suppose, that poisons act both ways; both through the medium of the nervous system, and through the medium of the vascular system. I can tell you in one word, what acts through one medium and what through the other. If you inflict a violent burn, the action is external, and corrosive poison acts internally; they act through the medium of the nervous system. All poisons that act slowly, you will observe, act through the medium of the vascular system. subject is, therefore, well worthy of consideration. You observe it has a most immediate application to pathology, diagnosis, and to practice.

Here I will just leave the subject of this excitomotor system, because, as you are perfectly aware, this course of lectures is not on the nerves, but on the treatment of diseases of the nerves. Before I leave it, however, I want to impress on your minds one point, about which I am exceedingly anxious. I have stated already one broad fact to convince you that a knowledge of these various actions of the nervous system is absolutely necessary in practice,

in diagnosis and prognosis.

Now I will suppose a case of disease of the brain. Gentlemen: —A disease of the brain cannot —quasi a disease of the brain-produce one museular action. As I said before, disease of the brain cannot, as a disease of the brain, produce a muscular action. It may be acted upon so as to produce morbid indications, but it cannot produce spasmodic actions. Why cannot it do it? Because it does not possess the power. I have already stated the brain to be insensible. The brain is not capable, lacerate it as you will, of inducing any spasmodie or convulsive action of itself. Suppose then in disease of the brain you have at the same time spasmodic action, what is the conclusion to which you must come? You must come to this conclusion. Diseased as the brain may be, it is not confined to the brain; it must inevitably extend beyond the brain, some other part must be affected. If the disease of the brain is not removed, it will extend to some other part entered by the vis acressa. Here you have at once the diagnosis of diseases confined to the brain, also of diseases attacking the brain, and also of their extension to other parts of the system.

There is another view of this subject, which is not only worthy of your attention, but worthy of your attention as practitioners, as I suppose you will assuredly become. I am exceedingly anxions to impress on your minds this important fact, that it is the study not merely of anatomy, not merely of physiology-and not one of you can become a practitioner without being a physiologist—but it has its immediate application to the practice of physic. It has been truly said by some professor, a very amiable man, a short time ago, that it is often the fashion to walk the wards of the hospitals without being able in many morbid cases that occur, to determine the excito-motor phenomena of various diseases of the nervous system.

One word more on this subject. I have hitherto spoken a few words on physiology and a few words on pathology. I will just add a few words on another branch connected with it, namely, therapeuties, and in a very especial manner therapeuties is connected with the subject I have been laying before you. Why? It would be very extraordinary if there were this power in the human or animal frame, and it had not this application to pathology, but also to the treatment of diseases. There is one agent acting through the medium of this system of nervous influence, and that is in the sudden immersion in cold water. What would you do in a case of child-birth in a state of asphyxia? The first and important remedy after an immersion of the child, is to throw cold water on the face, and excite inspiration, as in the case of common asphysia. In drowning, the same remedy may be applied. There are a thousand other cases in which you can use the cold water. I have a very interesting letter from the country this very day, written by a gentleman now residing at Stamford, a gentleman to whom I am indebted for the beautiful published a year ago,-Mr. Simpson. He says, alluding to a very interesting case of convulsions, the patient was roused from a state of stupor to a state of consciousness. She had an extraordinary degree of obstinacy; she would not swallow anything. I put the instrument in her mouth, but she would not swallow any food. I threw cold water on her face, and she swallowed it immediately. In this manner I fed her, and repeated the experiment from time to time. But this was not all, for the child was not born. Every attempt to excite the ntering system to contraction failed. My friend laid bare the uterine region, and applied the douche of cold water to the surface. Instantly the uterus was called into action. This was repeated until at last the skin of the abdomen became cold, Of course the cold over by that dreadful vehicle. You all know the water on the surface could not produce it. The child was born, and the woman was saved. Here then you have a distinct application of the excitomotor system to practise, and there are many others I shalf have to mention to you in their turn when I come to discuss the various diseases. I will only mention one more in concluding this subject. need hardly tell you that there arises a sort of sickness in all nervous movements, which is always produced by irritating the nostrils, and causing what sometimes takes place in action of a morbid kind, and of a convulsive character. Sometimes we wish, as in cases of poison, to excite vomiting. Before you can get a remedy, or an emetic is prepared, or the stomach pump is brought in, before you do anything, you can irritate the nerves which will produce the desired effect. I tell you this that the irritation of the fances which close the larynx, and the organs of respiration, and foreible pressure being applied to the abdomen, vomiting may be produced. Is not this important to know, in the possibility of such an emergency as that of a patient having swallowed a dose of landanum unintentionally, or any other poison! There is another fact I will yet mention in conclusion. We know that cantharides have an effect on the neck of the bladder, and we also know their effect on the uterine system. We also need know how this remedy acts with reference to the excito-motor system. On this point I may mention the ease of a patient who had taken that substance in excess. I mention it in order to know what is the effect produced by can-

It produces a state of things precisely like epi-lepsy or strangulation. The patient seemed as it she should be strangled, and nothing would relieve her but throwing cold water on her face-in fact, to convulse the larvay.

I have said enough to convince you, I believe, that we have very much to learn in use and practice by pursuing this subject of the excito-motor system. This lecture is not a lecture on the excitomotor system, but it is on the subject of diseases of the nervous system generally, and I will take care that I will not occupy you too much with a subject that may be considered a favorite one of my own, with the study of the diseases of the corebrum and the spinal marrow. All that we know of the diseases of the spinal marrow-all that we know of the diseases of the ganglionic systemwhat is it that we do know? Next to nothing. All we do know is a little of the anatomy and physiology, and a little of the pathology. Perhaps one of the most important parts of the pathology of the nervous system, is the peculiar effect produced on it by the motions of the excito-motor

I will mention a fact or two, in conclusion, to convince you. Take a frog, at a certain season of the year, and by slow degrees remove the brain, a part of the brain and spinal marrow, then another part of it, and then the whole of it, acting by degrees, and leaving an interval of an hour between the operations, then remove the whole brain and the whole spinal marrow, leaving the ganglionic system alone, but entire. Then you have left the perfect action of the heart, and you have the perfect circulation of the blood, and the perfect action of the lungs. Now, then, if with an animal so prepared —so destitute of every part of the nervous system except the ganglionic—if you just take a hammer and crush one of the limbs, you immediately are t the act on of the heat. But the act on goes on afterwards, palpitating, though not as be- It is also at this period that the liver, the kidneys, however great the differences presented by the four

fore, because the circulation is never restored; therefore the ganglionic system has received an impression which immediately produces its effect on the heart, which can no longer carry on its offices as before. An accident will do the same thing. I will mention but two cases, and then I will leave the subject, having already, perhaps, exceeded my hour. You remember the case of the late Mr. Huskisson, the first victim to the discovery of the railroad. It was when the Liverpool and Manchester railroad was opened; he was uddressing some conversation to the Duke of Wellington, when he received an intimation of the train approaching; he was absent, or had not presence of mind for the moment, and he was run consequence. His leg was crushed, and the heart immediately received an impression. The surgeon waited very properly for reaction; reaction never took place, and amputation never could be per-Here you have an action produced formed. through the medium of the nervous system, upon the heart, the consequence of which was to exhaust its power and prevent its carrying on the function, so necessary for life, as circulation. One fact more. You know the history of General M-Both limbs were wounded, and one was amputated, when the surgeon said, "I am sorry to say I must amputate the other," The general, with all the bravery of his nature, said, "Proceed with your work, gentlemen;" he sank under the second operation. ration. He did not recover from the second infliction of violence—physical violence—inflicted on the ganglionic system which the second operation brought about. Here then you have a double fact. In the first place, if we wish to amputate a second limb, what should we do? We should wait until the impression made by the first was entirely removed. We have also this fact, that the impression is made expressly through the medium of the ganglionic system. I am anxious to give the whole view of the subject in the short space of a few words, and on Monday we shall proceed further into the subject.

ON THE LAWS OF THE DEVELOPMENT OF ORGANS; OR, TRANSCENDENTAL ANATOMY APPLIED TO PHYSIOLOGY.

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Summary.—Reproduction of human embryogeny in the organisation of animals-The tail as existing in the embryo of man from the fifth to the seventh week-The ortic lobes; their mode of development-The very bre hemispheres-The cicatricula an independent being-The blastedermic membrane-The digestive tube; its early formation-Relation of organogeny with zoogeny--Lyonites-Differences and analogies between organites and zounites, with regard to their mode of existence, and the various forms under which they become associated.

In my last lecture I have shown you that human embryogeny is merely a repetition of comparative anatomy; we shall now, however, find that human embryogeny is itself reproduced, in some points, in the organization of animals. What is there more remarkable than that singular tail-like prolongation presented by the human embryo from the fifth to the sixth and seventh week ? character of a prominent nature distinguishes man from the mammitera and unadrimani, it is assuredly the absence of the tail. In the embryo, however, we find that this appendage does exist, an outward sign of the resemblances binding man with the chain of beings of which he constitutes the head. A further peculiarity presented by this characteristic is, that it is at the period of its manifestation, or during its duration, that the organic repetitions of comparative automy are reproduced. Thus, it of comparative anatomy are reproduced. is at this period that the penis, the elitoris, the prostates, the womb, &c., of the embryo, are counterparts of these organs in certain adult animals; it is at this period that the fractional state of the cranial and facial bones in the embryo represents the permanent or normal condition of these parts in the mammifera, reptiles and fishes.

the intestines, and the heart, are transiently clothed with the forms of these organs in the lower animals, and that the human brain is disguised under the characters belonging to fishes, to reptiles, and to birds. Lastly, we may state, that this tail-like prolongation has merely an ephemeral existence, like all the other organic resemblances of the embryo; it disappears in the course of the third month; and it is from this period that man, leaving behind him all other organized beings, advances by large strides towards the type of organization presented by him in after life. This change is especially interesting in reference to the series of metamorphoses which the brain undergoes in the embryos of the superior mammifera. Having ascertained the primitive analogy of its elements through all classes, it becomes necessary and indispensable to explain its dissimilitudes in adult animals, for these elements changing in form and position, and undergoing in each class new transformations, the whole brain is so far modified, that that of one class is not distinguishable from that of another, a fact which has hitherto prevented our perfectly understanding its nature, and which ever would, if we persisted in confining ourselves to its consideration solely on its permanent phases, and only after it has undergone these extraordinary phases,

To prevent our being misled by these continual changes, we must follow step by step each of these metamorphoses through all classes; and by taking into account the influence which the evolutions of one element exercise over the others. we shall be enabled to trace the brain through all its transient forms, until it reaches its permanent or normal condition. Such is the course which I propose to follow in the chicidation of this subject. Let us take either the tubercula quadrigemina, or the optic thalami in the three lower classes:-In all embryos these bodies are lobular, double and hollow: they occupy in all classes the superior surface of the brain, bounded behind by the cerebellum, and in front by the cerebral hemispheres. In their various evolutions these primitive relations alter considerably. In reptiles and fishes these bodies preserve the same form, the same position and relations. Not so, however, with birds and the mammifera. In birds they remain, as in reptiles, upon the superior surface of the brain, up to the middle of incubation. At this period they abandon this position, becoming gradually projected towards sides of the pedunculi of the pineal gland, and finally occupy the base and sides of the brain, where they are met with in all perfect birds. They, however, preserve, as in reptiles and fishes, their internal cavity. In the mammifera alone this cavity is obliterated, and these bodies become solid, like the spinal marrow. This solidification takes place, as in the last named part, by the deposition of concentrical layers. Originally these bodies are labular, double and hollow, as in the three lower classes, and they preserve this form up to about two-thirds of the period of gestation in the animals composing this class. At this period, which corresponds to the epoch when their eavity becomes obliterated, we see appear upon their surface a transverse groove which divides each tubercle into two. These two lobes are converted by this groove into four distinct tubercles, hence receiving the name of corpora quadrigemina. If in birds the optic lobes become arrested in their progress, they preserve the same place in which we observe them among reptiles and fishes. If in the mammifera the transverse groove does not manifest itself, these tubercles remain oval, hollow, and merely divided into two, as in the three lower classes.

Secondary differences arise in birds from this displacement of their optic lobes. In fish, reptiles, and mammifera, these bodies remain in their primitive place; the transverse layer which unites them above, experiences no modification. In birds, however, the case is different: in proportion as the lobes are separated one from another, their surface unfolds itself, the median layer which unites them extends itself, so that in adult birds, we find in the place which they occupied at first, and which they preserve in other classes, a large radiated commissure, composed of alternate series of white and grey matter. Such are the onter modifications shown by these bodies in the four classes. But

solid tubereles in the mammifera compared to the two hollow lobes in reptiles and fishes, whatever change in position may be experienced by these parts in birds, we see that it is always the same organ, disguised only by these different metamorphoses. Let us now consider the ecrohellam. As soon as the two transverse layers forming it are united with the structure composing the valve of Vieussens, this organ is formed in all classes by a small oval portion, constituting an arch above the fourth ventricle. If the cerebellum is arrested at this period of its development, it preserves in animals its simple and elementary form. This is the case in all reptiles and the greater numher of bony fishes. But, suppose that before the union of the transverse layers, the medalla oblongata becomes greatly enlarged, and that these layers do not increase in the same proportion, what then occurs? We see that the union of these layers does not take place upon the median line; they become folded one upon the other without uniting: the medullary layer of Vieussens remains floating upon the fourth ventricle, which it partly covers. This is the case with certain cartilaginous fish. Fish and reptiles then preserve the embryonic forms of the cerebellum, and permanently resemble, in this respect, the embryos of the superior classes. In the latter, the cerebellum acquires considerable dimensions, its surface is grooved with more or less numerous transverse lines of variable depth; at the same time it forms upon the sides and top of the brain a more or less marked projection. But these dissimilitudes produce no change in its tendency; it is still the same organ reduced in the two lower classes to its minimum of development, and carried to its maximum in the two upper classes.

It, however, appears more difficult to bring the corebral hemispheres of fishes to a level with those of the mammifera; for we see on the one hand organs of great simplicity, and on the other organs exceedingly complicated, having no manifest relation with the first, either in form, configuration or structure; all those characters which serve anatomists to recognise the homegeneity of organs being about, one would be tempted to believe that these parts were altogether dissimilar, and had no analogy one with another. But on tracing upwards the nterine life of the mammifera, we at first per-ceive the cerebral hemispheres rolled up, as in fish, into two vesicles isolated one from another; afterwards, we see them assume the configuration of the cerebral hemispheres of reptiles; later still, they present the form of those in birds; and, fastly, they acquire only at the period of birth, and sometimes even later, the permanent forms presented by the adult mammifers. The cerebral hemi-pheres arrive then at the state observed in the superior animals only by a successive series of metanorphoces. It'it were possible to develop the various parts of the brain in the lower classes, we should bacee lively male of a fish a reptile, of a reptile a bird, and of a bird a mountificrous animal. By atrophying, on the contrary, this organ in the minimiliars, we should necessively reduce it to the encephalic conditions of birds, reptiles, and tish. Nature, in some cases of mon treefly presents this Litter anomaly; but never have observers noticed in traces of the former. In the numerous irregufarities experienced by organised beings, we never find them surpass the bonn is of their own class to assume the forms of a especier one, never do we find a fish as ame the eneigh the terms of a reptile, the latter thece of birds, or birds the developnaint of the mammitera. A monter may present that if its nutrition, as some physiologists still a repetition of it various parts; it may have two think, is partly accomplished by the intestinal a repetition of it various parts; it may have two head aworalls, as or eight extremities, but it always remains strictly contined within the limits of its class. This phenomenon is undoubtedly characteristic of the general harmony of the creation,

We thus perceive that the differences of the brain in the various classes are principally composed of metamorphoses; that its dissimilitudes are established upon one common basis; that the fundamental organ remains the same in all. We thus see that if these evolutions become arrested in an animal during the course of ittransformations, such animal must necessarily present the organic forms of the class at which it

neither in the vessels and the heart, nor in the brain and its dependencies, nor in the genitourinary system; a being may exist and live without the presence of these organisms. Not so, however, with the nutritive apparatus: life can be m dutained only by the absorption of assimilative molecules; it is this property alone that endows an organism with its capability of life. Hence it follows, that in descending the animal kingdom, we see beings at the bottom of the scale reduced to an absorbing vesicle, and, on mounting to the highest possible point of embryogeny, we also find the radiments of the embryo constituted by a similar vesicle. Animality and life commence in both cases by a similar organic apparatus, reduced in its assimilative properties to the most simple conditions possible. Thus the monada, among the infusoria, are represented in embryogeny by the proliferous vesicle recently discovered by M. Furkinje. The volvoces, &c., are reproduced in the early embryonic state by the civatricula of the ovum; for the civatricula is already a being having a peculiar kind of existence, similar to the conditions of vitality among the lower infusoria, and the development of the cicutricula, and that of the embryo, the elements of which it contains, are the result or product of its life. Thus, in comparing the development of the cicatrivala of the chicken, with that of the lower animals and the infusoria, we see that the first rudiments of the inneous layer of the blastodermic membrane are represented by the mucous membrane of the rolences and protes, that the intestinal folds of Wolf, which correspond to the primitive duality of the intestine of the chicken, are, perhaps the true state of intestinal duality in several species of orticellic and arthe embryo of the anodonta.

To this primary state of the digestive canal of the chicken, succeeds a second not less remarkable; this consists in its division into three parts,--: median, the most imperfect, although central, and two peripheral, or external portions; a mode of formation represented by the embryo of the lobster, in which M. Rathke has seen the isolated development of the gastric and of the intestinal portions. Again, is not this imperfect state of the alimentary take a reproduction of the permanent condition of the intestinal canal in the vermicular animalcula? Is not the invagination of the double digestive canal of the earth-worm, the bala et, &c. a permanent representation of the mode of tormation in the embryo of the lobster? We thus perceive that whatever imperfection may exist in the first radiments of the intestinal canal in the embryo of the vertebrata, we shall find its counter part in the permanent organization of the interior

The lower animals also reproduce in a very evident manner the following metamorpho is of the embryonic intestine of the bird. We know that when the three parts of the digestive ennal become united, this canal is straight and merely of the length of the young embryo; now, such is the case with most of the coupliytes. We know also that at the period of this milion, its two extremities are closed, that it is a double cocuun; now this double eccum is an exact repetition of the second alimentary tube, affixed in the ordinary intestine of the earth worm -an arrangment to which M. Ch. Morren has given the name of typhlosole. Such is also the case with the greater number of cibrious, end rice, and some of the trice ics among the infusoria. We know again that the double coemin of the embryo opens at first by its anterior part, so of month and and ; now, we are all aware that this imperfect arrangement of the alimentary cand it precisely that of the greater number of zoophytes, especially of the pematula, the ventilla, the aleyonea, &c.; also of several species of the tricodes, among the infusoria. We know, finally, that at a more advanced period of embryogeny, the intestine is open at both extremities; that there then exi is an amis distinct from the mouth.

That is the permanent condition assumed by the alimentary canal in the lower animals, presented to us in a transient manner during the embryois arrested. But the essence of animality resides geny of the vertebrata. The one condition is the way that an organite may carry on its function in

reproduction or the repetition of the other. Organogeny is, then, but a transient comparative anatomy, and comparative anatomy a permanent embryogeny. Numerous examples may be found of this concordance of human organogeny and comparative anatomy. We see in the leginning the i-plated state of the organisms in the human embryo, as well as in animals, together with the ultimate association of these elements; so that these organic elements being invariably given, nature associates them to their highest degree in the development of man, and maintains them disassociated in various degrees in the development of animals. From this association and disassociation result organic forms; the form of the organs is then merely a secondary condition, and its variations are as numerous as the combinations of the elements producing them. The globular, eylindrical, spherical, or demi-spherical forms, are those towards which the organites tend in their associations; whence it follows reciprocally that from their disassociation results the decomposition of the globular, spherical, or demi-spherical form of the organs which they constitute by their union. Now, in human embryogeny, organogeny is directed towards raising the organs to this high point of association; it therefore follows that the higher we proceed in embryonic life, or the nearer we advance towards the original condition of the organs, the more will the organisms be found to be disassociated or isolated. Such, also, is the case in comparative anatomy. There are, however, some differences between these two branches. In the human embryo, the organisms during their development traverse quickly through their primitive forms; they glide rapidly through them to arrive at their proper and harmonions condition. The definitive result of this development is then to associate the organs, and to combine their elements so as to form a compact group of the various parts which the young embryo presents at its commencement. In animals, the same tendency to unity of the organisms is manifested throughout the whole animal series and in each of the organs constituting them; but it fails either entirely or in part. The effect of this failure is then the disassoiation of the materials constituting the organisms. It therefore follows. Ist, that the disassociation of the organisms, which, in man, is only transient, is, on the contrary, fixed and permanent in animals. 2d. That the various organic forms resulting from this disassociation, fleeting in man, are constant and fixed in animals. 3d, That animals, considered with regard to the formation of the organisms, permanently represent the embryos of the human race.

This mutual relation of organogeny and comparative anatomy leads to that of zoogeny. An animal is a compound of organs, as an organ is a compound of organic elements. Association or homorozygy unites and harmonises these organs together, in the same way that it combines the materials constituting them. Such being the case, can the formation of the animal be brought under the same laws as that of the organ, or, in other terms, are organogeny and zoogeny mutually related to one another? This question presents great interest, for, according to the system of preexistences, it was taught that animals, as well as organs, were pre-formed in every part; such as they now appear, so had they always been at the various periods of their existence. We must then enquire, in the first place, whether there really exist elements of animals, as we find elements of organs; whether these zoogenic elements can become combined and associated one with another so as to procanal, the same opening serves the purpose both | duce a variation in animality, in the same way that the organic elements are associated and combined to vary the nature and form of organs. The solution of these questions may, methinks, be traced in a certain manner by organogeny. I may remark, that there are elementary animals of the most simple kind, as also there are primitive tissues and organites formed by the most simple combinations. These simple or primitive animals have been designated by the term zomites, by MM. Dunial, Moquin, - Sandon, and Duges. The conites are in some sort diminutive animals, as the orgunites are diminutive organs; and in the same an isolated state, and concur by its association to a common action, so may a zoonite live isolated, as it may also by its association bring its share of life to a common stock. The monades, the volvoces, the acceptatocysts are free zoonites. difference which exists between an organite and a zoonite depends then less on their constitution than on their dependence or independence. In this consists the fundamental principle. An organite is always dependent, its life is always subordinate to that of the individual of which it forms a part; a zoonite is always independent, it has a life peculiar to itself. So that by conceiving an organite which had lost its dependence, we should picture to the mind a zoonite, in the same way that a zoonite ceasing to be independent would become converted into an organite. Thus the ovules composing the ovary in the mammifera, in birds and reptiles, are organites; they are parts possessing a common character. The immediate possessing a common character. result of impregnation is to separate the ovule from its associates, to isolate it, and render it independent. It is then in this state a zoonite capuble of passing freely through its various evolutions. We may, however, have the inverse of this take place in nature; for we sometimes see zoonites as the monades, the volvoces, the ascidia, and even the biphora, which have a separate and independent existence, become united to others of their own species; from independent they become dependent beings, quitting their individuality to become associated with their fellows, and thus passing from the state of zoonites to that This important fact may, perhaps, of organites. throw some light on organogeny. For, in this point of view, what should prevent us from considering the serous membranes or vesicles, before they become associated with the organs, as species of zoonites which by their association become organites. I might also show that the serous vesicles which become accidentally developed are and remain zoonites (cysticerei); but my object was to establish that, in zoogeny, the zoonites or elementary animals may exist in two different states; that they may be either free or associated, very similar to the organites or elementary organs which we find either associated or disassociated in the phenomena of organogeny.

COURSE OF LECTURES ON THE THEORY AND PRACTICE OF MEDICINE.

Delivered by C. J. B. WILLIAMS, M.D., F.R.S., Pofessor of the Practice of Medicine, and of Chincal Medicine, at University

Gentlemen,-By a careful comparison and discrimination of the details I have given with regard to congestion, determination, irritation, and inflammation, you will be able, in all ordinary cases, to make an accurate diagnosis between them; and to do this with readiness is, as you must at once see, a matter of no little importance in practice. I shall now only give you a very brief summary of the leading features :- We found that in conges tion there is, as compared with inflammation, little pain and heat, and that the reduess is much less intense; also, that there is less tendency to the production of changes in the structures affected. and that the fever accompanying inflammation is either absent altogether, or else assumes a much lower character. We found that in determination, there is likewise no alteration produced in the structures, and very little in the secretions,that the fever is much more evanescent than in inflammation, and that the pain is much less con-The increased local pulsation and various other little points distinguish it from congestion. The next state requiring to be carefully distinguished from inflammation, is what has been termed irritation, by which, in the present case, is meant simple exaltation of the property by which impressions are excited in a part, or communicated from one part to another. Now, in nervous subjects as we have already noticed causes unconnected with inflammation, may excite all the sympathetic signs that inflammation commonly produces; for example—inflammation of the stomuch causes vomiting, which depends upon exciation of the stomach, abdominal muscles, and the haphragm, and yet, as you all know, vomiting may

arise in numberless instances, in which nothing like true inflammation can be suspected; it may arise from congestion, from the presence of various foreign substances, from even mental impressions. and, in short, from any cause that will be productive of irritation. It is clear, then, that we must find some symptoms or signs that are peculiar to inflammation before we can be justified in stating, that inflammation is present. In simple irritation there is no heat, no redness, no swelling, although there may be very severe pain. Irritation does not produce much perversion in the functions of a part, whereas this perversion is a very leading character in the influences of inflammation; for example, suppose a case in which lumbar pain was experienced in a severe degree; that the testicle was retracted; that the loins were tender on pressure; and that, in consequence of the severe pain suffered, the heart's action was somewhat increased, and general excitement of the constitution was present, in fact, that there was slight ferer, how should we decide whether the cause of the symptoms was inflammation of the kidneys (nephritis). or whether all was owing to simple irritation of the nerves without any inflammation whatever? We should naturally have immediate recourse to the condition of the function of the kidney, and ascertain the state of the wrine. If, on examination, we found it copious, clear, and of usual and healthy colour, we should conclude at once that the kidney was not the seat of inflammation. Thus you see the state of a secretion may be the point upon which your diagnosis would turn. If any mechanical irritation, however, existed, such as a calculus, we might find the appearance of the urine altered by the presence of mucus, although there was no inflammation. Again, you know, that ferer is a great characteristic of inflammatory action, whereas, in irritation, there may be entire absence of hardness or sharpness of pulse, heat of skin or continued perspiration and the like. It is true the heat might be increased temporarily, but it would not be permanent like that of inflammation. It has been supposed that the serum from an inflamed scrous membrane always contains a number of granules (epithelial cells), which is not the case when only congestion is present. So much for the diagnosis of inflammation. We shall now proceed to the subject of its prognosis or probable termination. The probable event of inflammatory disease must depend upon its scat, extent, advance ment, and the nature of its product, as well, of course, as upon the stamina of the individual in whom it occurs. With regard to the seat, I need scarcely say, that the more important the organ, the more dangerous, ceteris paribus, will be the inflammation, and, as a consequence, the less favourable will be the prognesis. It is also equally obvious that the greater the extent of surface over which inflammation prevails, the less likely it is to be subdued. Again, as to the advancement of the disease, our prognosis would be much more favourable in the early stages, because at that period our remedies have by far the greatest influence. The state of the functions generally is an important guide to prognosis; the less these are affected the more favourable will be our opinion. notice the products of inflammation presently.

To sum up, the prospect is good when the previous health has been, and continues, sound—when there is little constitutional derangement—when the inflammation is slight—when the sensorium is little affected, and the secretions not much perverted. Under these circumstances the antiphlogistic treatment is most effectual, and can be best borne. Inflammation occurring in good constitutions ought always to be cured, and when the organ affected is not important. On the other hand, the prognosis will be unfavourable, when the inflammation occurs in weak constitutions, whether such debility arises from age, from excesses, or from previous disease; when the inflammation is far advanced, and the system has been long sufferingwhen there is some depressing influence on the powers of the system as an animal poison, or something modifying materially the mutritive processes, as are found to be the case in scrafula; when the secretions are greatly disordered, and an important organ is extensively affected of the habit, such as brown tongue, fetid urine. feeble pulse, and the like, are manifested, Under all these circumstances we must be very cautious how we hold out sanguine expectations of a favourable result. One great reason for a bad prognosis when the system has become weakened, is, that the season for employing antiphlogistic measures has passed away.

We have next to notice the ordinary ways in which inflammations may be considered to produce a fatal result. We shall find that they may be divided into four. In the first place inflammation may prove fatal by directly impeding the rital functions; thus, inflammation of the brain causing effusion and consequent pressure, so that the cerebral function, which we know is essential to life, becomes impaired and destroyed. Again, inflammation of the lungs proves fatal by the injury produced upon the all important function of respiration. We may say that death is produced in both cases by asphyxia. Inflammations affecting the heart, kidneys, &c. are also fatal, by impairing necessary functions. The same is true of the intestines. The second method of termination is by the sympathetic depression in the action of the heart. Thus inflammation of the peritoneum causes great prostration, and the patient dies of syncope. A third termination is caused by means of the products of inflammation prisming the system. Examples of this are seen in the absorption of gangrenous matter - pus, and the like. Erysipelas and hospital gaugrene may prove fatal on the same principle. The fourth, and last method, is gradual echanstica of the whole vital powers Thus in cases of extensive suppuration, the strength of the system is gradually reduced, so that no vital energy remains, and death, as a necessary consequence, takes place. Abscesses in the liver, lungs, &c., may also, by their constant drain upon the constitution, end in the same way.

It now remains for us to consider, and that very attentively, the treatment of inflammation, and seeing that the disease itself is so complicated, and consists of various elements, it is only reasonable to expect that the treatment founded upon the elements should be somewhat complex also. Some of the elements may be regarded as more essential than others; thus congestion, determination, exaggeration, and alteration of the nerveus functions appear to be essential. The general functional derangement and excitement of the heart, constituting inflammatory fever, and the altered condition of the blood may be regarded as less essential. Each element may be present in different proportions in different eases of inflammation, and each may be opposed by different remedies. We find also various combinations of the elements. I have prepared a tabular arrangement for you, which I think will give you a more concise view of the elements and their treatment.

ANTIPHLOGISTIC REMEDIES ELEMENTS. INFLAMMATORY DISEASE.

Local Inflammation.

Congestion Stimulants, Astringents.
Determination Derivants, Depletion.

Ferer.

Increased action of Heart (Blood-letting, Sedatives, Reand Afteries) (layants)
Diminished Secretions (Evacuants, Afteratives. Change in the Blood Blood-letting, Alteratives, Evacuants.

Results of the Inflammation.

Softening.

Suppuration. Ulceration.

Adhesion, Inducation, &c.

When one irritant causes dilatation of the vessels to which it is applied, a second one may produce contraction, and thus disperse the accumulation to which the first gave rise. Thus we may often treat successfully the first or congestive stage of inflammation by astringents or stimulants, as in The operation of slight inflammations of the eye. these two classes of remedies is distinct, although they are frequently confounded. Thus simple astringents, as cold, acctate of lead, &c. act, by -when symptoms, indicating a low condition diminishing directly the calibre of the capillaries.

Whereas stimulants operate by eausing determination to the congested capillaries, and thus sweep ing away the accumulated blood. I readily ascertained this last mentioned fact by causing congestion in the web of a frog's foot by means of a little capsicum, and then applying a drop of essential oil, the result of the latter application was to enlarge the capillaries by producing determination to the part, and thus sweeping away the con-gested blood. This is rather dangerous work in gested blood. This is rather dangerous work in practice, yet when judiciously regulated may be highly useful in putting a stop to threatening inflammation. In slight cases of sore throat, astringent and stimulant gargles are often beneficial. Cayenne is with many a favourite remedy, and it operates not merely as an astringent, but it relieves the overloaded vessels by increasing the secretions. Again, in slight disorders of the stomach and bowels, in which a low degree of inflammatory action is probably present, emetics and purgatives are beneficial; these stimulate the parts, and cause the secretions to be augmented. Nitrate of silver may be useful in cases of slight ulceration of the intestines. It has also a remarkable influence in crysipelatous inflammation. Some suppose that its application causes a new kind of inflammation, which arrests that previously existing; others say that the progress of the crysipelas is stopped by the nitrate of silver causing lymph to be thrown out around, whereby the first inflammation is circumscribed. The utility of stimulants is seen in the good effects often produced by stimulant inha-lation in some cases of bronchitis. Heat and cold are frequently used in inflammation-cold astringes-heat stimulates; but it acts chiefly as a derivant on the adjoining vessels. If there is a considerable determination, these remedies will fail to produce much benefit. Evacuants and derivants must be used; we may try bleeding. In tonsillitis we may scarify, and then use astringents. If there is much blood in the system, this must be diminished (as well as removing blood from the immediate seat of inflammation), although there may be only little inflammatory ferer present. When, in addition to these, there is considerable pain and nervous irritation, the treatment must consist in the addition of sedatives;—of the local sedatives there are, perhaps, few more effectual than cold; solution of lead is very useful. In inflammation of the stomach, it is very beneficial to swallow ice, also to drink cooling saline solu-tions, such as nitre, citric acid, &c. These can tions, such as nitre, citric acid, &c. only be trusted of course in slight inflammations. When inflammation is chronic, we may employ more decided astringents, such as the nitrate of silver, sulphate of zine and the like.

EXTRACTS FROM FOREIGN JOURNALS,

(I ran lated from the 'Gazette Medicale' For the 'Medical Times.')

FRENCH.-Ertraordmary case of Cutalepsy, with Transposition of the senses, observed at Caen. By Dr. Divard.-Mlle. Melanie, born of parents who had always enjoyed good health; one of her elder sisters, however, had died of pulmonary phthisis, and a younger sister had been for some time ill. Mile. Melanic herself possessed a strong constitution. and was always in good health up to twenty. one years of age. About this period she was attacked with a dry cough, accompanied with pains in the class and head-ache; she was not however, obliged to keep her bed till six months later. In January, 1841, she was affected with pleurisy of the right side, which confined her to her hed for three weeks, at the end of which time she got up imperfectly cured. Since then, she has constantly suffered in the right side of the chest; the menstrual flux at first diminished, has since become totally suppressed. In the month of July, 1841, I was called to attend her for the first time; she then presented all the signs of pleuritic effusion (constriction of respiration, dry and frequent cough, unnateral enlargement of the right side

of the respiratory murmur at the base of the lun and (egophony). The patient had still considerable embonpoint; her countenance was ruddy and she was quite free from fever. The application of leeches to the upper part of the thighs and blisters to the diseased side, produced considerableimprovem ent. The patient then objected to any further treatment, as she was able to keep about: but some weeks afterwards she was affected with a spitting of blood, which necessitated two bleedings at the arm. In a short time, the pains in the chest, the head, and stomach, became again very intense, when the family called in Dr. Vastel, who agreed with me as to the presence of a pleuritie effusion. A large seton was applied to the lower part of the chest. The patient, who had several times previously refused to submit to this operation, gave her consent with great difficulty; she laboured under great neryous irritation, which was augmented on the following days, and which I attributed to the circumstance of the seton having caused acute inflammation of the surrounding tissues, but unattended by suppuration.

Six days after the application of the seton, the patient who, for fifteen days previously had had no alvine evacuation, was as it were compelled to use a lavement, to which she had always hitherto objected, in spite of all solicitations. Some hours afterwards, Mlle. Melanie, who had never before been attacked with hysteria, experienced a fit of great violence, which listed several hours. The next day, she took three drops of croton oil, which produced copious evacuations, and on the third day she felt relieved and asked for something to eat. A few hours after taking food, however, the hysteria reappeared with renewed violence, and on the succeeding days the patient had several fits every day, each attack lasting two or three hours; these paroxysms constantly occurred after her taking food, which she obstinately persisted in doing, notwithstanding all remonstrances. The seton, which had not suppurated, and which caused acute pain, was withdrawn eight days after its application, without, however, having any effect over the hysterical fits, which were generally proportioned in length and violence to the quantity of food taken by the patient. These attacks always began in the same manner: the patient after experiencing for some time greater pain in the chest and weight at the stomach than usual, began suddenly to scream out, and her body became bent backwards, as in opisthotonos, so as to form an arch, the extremities of which were constituted by the crown of the head and the soles of the feet resting on the bed; she remained for some minutes immoveable in this position. Then, unless restrained, she would throw herself off the bed on to the floor and roll about in agony, striking her chest and stomach with her hands, or knocking her head against the floor. Sometimes she dragged herself upon her knees and elbows round the chamber with great rapidity until her strength was completely exhausted. Then she became calm for a few minutes; but soon renewed her cries and convulsive movements, especially on hearing any unexpected noise, as the violent slamming of a door, the rolling of a drum, the barking of a dog, &c. Frequently when in her calm moments, the persons around her sang a hymn she knew by heart, she would join her voice with theirs, without appearing conscious of what she did, and then she would sing with greater sweetness than in her lucid mements. After thus singing, sometimes, for several hours, she would fall asleep, and on waking in her full faculties, would have no remembrance of what had happened. of the chest, dull sound on percussion, absence Six days after the appearance of the hysteria, an hundred and twenty times in a minute,

the patient was suddenly struck dumb, and for three days was unable to articulate a single word, being obliged, in her lucid moments, to write down what she had to say to those about her. She recovered her speech on the fourth day, after a violent hysterical fit; then, after speaking a few words to the surprise of all present, she experienced another fit which lasted three hours, after which, she, for the first time, fell into a state of catalensy, on the

30th of August, 1841. From this period Mlle. Melanie had each day several attacks of eatalepsy, alternating with hysteria, and which lasted about half an hour each. During these catalentic attacks, there was complete insensibility of all parts of the body; the limbs easily assumed and preserved the positions, however fatiguing, which were given to them; the respiratory movements were imperceptible; the pulse was scarcely perceptible at the radial artery, and the contractions of the heart, which were very feeble, were from sixty to seventy in the minute. After some days, the eataleptic paroxysms became longer, lasting several hours each, but not without interruption; for every time the patient coughed, which frequently took place every ten or twelve minutes, she performed some respiratory movements; sometimes she turned her head from one side to the other, or else raised herself into the sitting posture,—at other times she jumped out of bed, stood at its extremity without opening her eyes, and balanced herself upon one or both legs,-or else she walked about the room, or placed herself upon some eminence, where she usually assumed some fatiguing though graceful posture. Her countenance had, during the whole cataleptic condition, an air of sweetness and satisfaction. She preserved these assumed attitudes until affected with a new paroxysm of cough, or until earried back to bed. Although her eyes were constantly closed, she never ran against any obstacle or injured herself. One day during a fit of coughing she jumped out of bed and flew towards a window, which she opened before any one could prevent her; but at the moment that she appeared about to leap ontwards, the cough ceased, and the patient relapsed into a state of cataleptic immobility, with one foot placed outside the window and the other on the floor. She remained in this position until carried back to bed. The termination of each cataleptic attack was indicated by the respiration, which became gradually more free until the patient opened her eyes and recovered her intelligence. The return of the hysterical fit might also be foretold by watching the countenance of the patient, for the chin and lower lip were agitated by convulsive movements for some seconds, or even a minute before the commencement of each attack. After the cessation of the catalepsy, or hysteria, she recovered her full faculties and complained only of fatigue beyond her usual pains. Sometimes, during her suffering, she would regret not being in a state of catalepsy, during which she felt no pain. Frequently, during the lucid intermissions in the night, she would get up and work for several hours at her embroidery. Then, when all about her were asleep, she would take the keys and search the house for food, which she eat with avidity, although she knew that it

rendered her attacks longer and more frequent, For eight days, the usual attacks of hysteria almost entirely ceased, and were replaced by paroxysms of dyspinea which lasted about half an hour each, and which appeared to be produced by the spasmodic contractions of the diaphragm. During these attacks, the patient breathed from eighty to an hundred, or even

which fatigued her much more than the other convulsive movements; the pulse ranged from sixty to seventy.

Five weeks after the commencement of the catalepsy, Mlle. Melanic had several attacks of natural sommambulism, getting out of bed without opening her eyes, walking about the room, arranging the furniture, &c., and entering into conversation or answering the questions addressed to her, even with more truth than in her waking state.

On the 12th of October, some days after the tirst attacks of somnambulism, I found, at my morning visit, Mile. Melanie in the eataleptic state, and on placing my hand upon the epigastric region, I observed her face assume an expression of pain. 1 then applied my mouth to the pit of the stomach and addressed some questions to the patient which she answered correctly, to my great surprise; for although I had read of some cases of a similar kind, I had hitherto refused to believe them, thinking the authors were themselves deceived or wished to deceive others. During this visit which lasted an hour and a half, I made numerous and conclusive experiments which convinced me of the transposition of the five senses to the epigastrium. All the experiments which I made at this visit and the two following ones, with a view of ascertaining whether the palms of the hands or the soles of the feet possessed the same sensibility as the pit of the stomach, produced no result, and yet, two days afterwards, these regions became equally sensitive. In the evening of the same day, I renewed these experiments in the presence of several witnesses, who were equally astonished as myself. Lastly, I continued repeating them every day, and several times a day, for the space of two months, varying them in every possible form, and adopting every precaution to guard against deception, although from the character of the patient I could not suspect her of having any intention to impose on me. Here was the case of a religious young person, who, before her illness, had never heard of catalepsy or animal magnetism, and who, when the latter agent was spoken of as a likely means to cure her and its nature explained, had always called it folly.

In this cataleptic state, the muscles of the trunk and limbs presented three different conditions; sometimes they easily assumed and steadily preserved the positions given to them, however fatiguing or fanciful. This was the most frequent condition, and, in fact, the only one observed during the first month. When in this state the eyes were constantly closed, but could be opened by the operator. At other times the muscles were contracted with tetanic rigidity throughout the whole body, so that the strongest efforts failed in overcoming them. The eyes were then open and fixed, but could be readily closed. The tongue was protruded from the mouth, and was only withdrawn within the teeth on compressing the nostrils, so as to compel the patient to respire by the mouth. Lastly, in some conditions of the museular system, the limbs would readily assame whatever position might be given them, but immediately on abandoning them, they became obedient to the laws of gravity.

Sensibility was totally absent in the integuments and subjacent parts, excepting at the pit of the stomach, the palms of the hands, and the soles of the fect. Thus the patient showed no signs of sensation on pinching or pricking the skin, on drawing the hair, titillating the nose, &c.; but if the before-excepted parts were touched even with the feathers of a quill, the patient immediately withdrew the part touched, and by her countenance evinced her displeasure. On applying the knob of a Leyden

Jar, charged with electricity, to the sensitive parts, the patient gave a violent jump, and sometimes instantly awoke; but she remained immoveable when the electricity was discharged upon any other part of the body.

The sense of hearing seemed perfectly absent at the ear itself, but on sounding a bell over one of the sensitive regions, her countenance indicated that she heard the noise. On speaking to her by placing the lips upon either of these parts, she heard what was said to her, although spoken in so low a voice that the words could not reach her ears. She answered all the questions addressed to her, but her voice was always so low, that it was necessary for a third party to apply his ear to the lips of the patient. It was not necessary for the patient to hear what was said, that the lips of the operator should be applied in immediate contact with the sensitive parts. I often made use of a long stick or rod of iron, placed as a conductor of sound between my mouth and tho foot of the patient, who heard and answered my questions, although I spoke so low, that persons placed between me and the head of the patient, could not understand what I said. The answers which Mlle. Melanie made to the questions addressed to her in this condition were quite as apropos, or even more so, than she could have given if in her waking state. for her memory seemed to be better while in the cataleptic paroxysm. But when affected with the tetanic spasm, the tongue and other parts subservient to speech were unable to execute any movement; the patient said at the termi-

any answer. The taste and smell were totally wanting in the organs by means of which they are usually exercised; but they were greatly developed in the sensitive regions. Thus substances of an intensely disagreeable or powerful flavour might be placed upon the tongue without producing any indication of her tasting them; and the nares might be filled with tobacco, assafœtida, the fumes of ammonia, &e., without inducing any effect. But on placing any of these substances upon the sensitive regions, the patient immediately perceived their flavour or odour, and her countenance indicated whether they were to her taste or not. She would also when questioned, name what the substance was thus submitted to her examination, and would answer whether it were good or bad. On applying some ammonia to the soles of her feet, she complained of its strong odour, which almost immediately made her cough, whilst she remained immoveable when some of the liquid was dropped on her leg, and even left so long as to produce vesication of the skin.

nation of the paroxysm, that although she had

heard what was said, she was unable to give

Although the results of my first experiments led me to believe that there was also in this case a transposition of vision as well as of the other senses, I afterwards became convinced that such was not the ease, and that what I had at first considered as the effect of vision, was merely the result of an excessively developed sensibility of touch. On separating the eye-lids, and touching the globe of the eye, the patient attempted to close the lids, and if, whilst they were separated, a light was approached to the eye, the iris slightly contracted. Still nothing indicated that the patient saw what was around her, and the act of passing any instrument in front of the eye gave rise to no movement. Unring the tetanic spasm, the eye-lids and iris were perfectly immovea-On placing any object upon one of the sensitive regions, and asking the patient whether she could see it, she answered in the affirmative, and almost invariably named the

Thus she always recognised a watch curaey. when placed at the pit of the stomach, or in the hand; she invariably told whether the watch were of gold or silver, and whether it was going or was stopped. She could also tell pretty correctly the hour of the day as exhibited by the watch, but she was constantly deceived when the hands of the watch were deranged, so that they no longer corresponded to the true time. At the second sitting, she succeeded, after complaining for some time that it fatigued her to read, in spelling the word commerce, written in large letters, and placed upon the pit of the stomach; but in subsequent experiments she could never distinguish the letters of the alphabet written separately, and placed successively upon one of the sensitive regions. When asked how many persons were in her room, she always answered correctly, and would name those whom she knew; but she was often deceived when asked to point out the position and occupation of each of these individuals. Whenever I asked her if she could see the seat of her disease, or if she could inform me what was necessary to cure her, she answered in the negative, saying it was my affair, and not hers, and that I ought to know better than her, the nature of her disease.

Effects of Treatment.—Bleeding by the lancet, by leeches, and by cupping, frequently relieved the disease, allaying the cough, the pains in the chest, in the head, &c.; but the nervous symptoms were always rather augmented than diminished after the abstraction of blood. Flying blisters always allayed the cough and pains in the chest, so much so that probably the patient would have been cured had she been willing to have continued the use of them. Purgatives and emetics relieved the pains in the stomach whenever they were employed. After their action, the fits of hysteria and catalepsy were less frequent, as well as shorter; but the very intimation of employing a lavement was sufficient to throw her into a fit of hysteria. Antispasmodies and nareotics never produced any relief, even momentarily. These latter remedies were administered both by the mouth and by the endermic method. I endeavoured to magnetise the patient, and in the three first sittings I thought that I had succeeded in arresting the fits of hysteria by this She was put to sleep, and remained in this state for several hours each time; but in the succeeding sittings all my efforts were uscless, and I was able to produce no effect. Electricity appeared to produce more favourable results, with regard to the nervous affection, than any other means employed. When the patient, being plunged in the cataleptic state held the two poles of an electrical machine in her hands, the shocks she experienced were much weaker than would have been felt in a state of health. Still these shocks were always sufficient to wake her after a few minutes; she then pushed the poles away and relapsed into a cataleptic state, when I recommenced the experiment, and after waking her thus several times, she would, in about half an hour, recover her full faculties. From the first day that the patient was thus treated by electricity, the fits of hysteria and catalepsy, especially the latter, became less frequent and shorter, and after about three weeks, she used sometimes to pass over the twenty-four hours without experiencing any paroxysm. In the month of December, she found herself well enough to go home to her parents, who lived twelve leagues beyond Caen. Still, the cough and pain in the chest were almost in the same state as six months previously.

whether she could see it, she answered in the affirmative, and almost invariably named the object, or else described it with sufficient ac-own home, and has refused to submit herself

to any treatment, is, I am informed, in almost | the same condition as when she quitted Caen. She is constantly tormented with the same dry and frequent cough, with the pains in the right side of the chest, and the head ache. Her digestion is better, in consequence of her taking frequent exercise on horse-back and in a carriage. She preserves her embonpoint and fresh look. The attacks of hysteria and catalepsy are much less frequent; but any opposition offered to her, or any sudden emotion, instantly cause these fits to re-appear. She is especially subject to them at the period of menstruation, which, after having been suppressed for several menths, has re-appeared, although in small quantity.

The above ease, says the editor of the Guz. Medicale, is exceedingly interesting under several points of view. 1st. The patient, although labouring for fifteen months under chronic pleurisy and dysmenorrhea, and fmally amenorrhea, had preserved her colour and embenpoint. 2d. There appeared to be a constant connection between the state of the digestive tube and the nervous symptoms. These latter were constantly relieved by the employment of purgatives; and it was especially when the stomach was full that the fits of hysteria were most violent. The digestion appeared to be very weak, for on several occasions the patient vomited food taken forty-eight hours previously, and which had undergone scarcely any alteration. 3d. The cataleptic state ceased immediately that the cough awakened the pain in the right side of the chest, showing that the internal organs were not like the external, devoid of sensibility.

TO CORRESPONDENTS.

We are still receiving tetters in shouls about the N. w. Regulations. Our correspondents must be referred to the resolutions of the College, published among our advertisements last week, and to our observations thereupon. What kind, or what amount, of proliminary professional education the court of examiners require from gentlemen long in active practice, we know not-nor do they appear to know themselvesfor they demand " what may satisfy them;" i.e. we suppose, a something in the future not yet decided on, but which will probably rise or fall with the healthy state of the digestive organs of the examiners. If there be any absurd rigidity shown in the requisition, the object of the change will be entirely defeated, and what was meant for a boon to a great buly of country practitioners, and which we welcomed as tending to make more compact and united the great body of our profession, will prove but an unhandsome fraud, most injurious to the happiness of numbers whose hopes it only excited, to blast. Sir Benjamin Brodie, we somewhat fear, has out-generalled our friend Guthrie.
Pulvus—Chiros—M. N.—Dr. W.—Mr. S. P. T.

Argus-declined.

Several communications have been received. Adscriptor can recover for that portion of his attendance which he can prove to be medical,

11. N. D.—In a similar case, on an indictment for murder, the jury were directed "that if either of the prisoners sustained the principal by his advice or presence, or if they thought he went down for the purpuse of encouraging the untanful conflict, although he did not say or do anything, yet if he was present, and was assisting, &c., he will be guilty of the offence

and the prisoners were found guilty.

" We had thought of publishing the report of the French Academy of Medicine on Orfila's experiments, but the betwees of the celebrated French chemist, (given in our last vol.) are so ample in their cluvidations, that the addition now appears to us un-

Mr. Nottingham's sixth lecture on Operative Surgery-Mr. Smith's case of Spasmodic Stricture of the Urethra, and the observations of Veritus next week.

We shall commence week the heginning of a

Factories" by our esteemed contributor, Dr. Charles Clay, whose articles on the Latirpation of Diseased Oraries, recently published in our journal, have ercited such marked interest on the part of British and Cautinental surgeons.

THE MEDICAL TIMES.

SATURDAY, DECLMBER 17, 1842.

-- Give order that these bodies. High on a stage he placed to the view, And let me speak to the unknowing world How these things came about.

SHALSPEARE.

WE proceed, according to our promise of last week, to burn out that nest of disease —that lair of pestilence—the Tabernacle Grave Yard, Tottenham Court-road, Approximation, even mentally is so foul that we shall endeavour to make short work

This stinking mass of putrefaction—this dead man's dunghill-ferments, and seethes, and pours out its steaming gases into one of the most crowded of metropolitan neighbourhoods, and alongside one of the most incessantly trodden of metropolitan highways. The vampire of the establishment is a Mr. Nash; a gentleman who, doing the honours with the zeal his polished namesake shewed for the waters of Bath, catered for this pet spot with a cleverness of diplomaey, which, though "man wants but little there below," early, very early secured for it more eustomers than it could supply packing place for, and, subsequently, called into exercise more mechanical ingenuity in the grave-diggers than was required to make the fortunes of an Arkwright—nay, more than has been required in the diggers of any other grave-yard in London, excepting only that, whose odorons exhalations, rising like the sweets of "incense breathing morn," supply an atmosphere and "ventilation" to the immortal inmates of Dr. Todd's "best possibly situated " of hospitals. We know not how this spot escaped notice in Mr. Walker's valuable book, and in the Report of the Parliamentary Committee — вит YEARS AGO-and several years, too, as we are prepared to prove, it was saturated, plugged with human decomposition. But Mr. Nash is the beau ideal of pious and ingenious sextons. A charitable, religious, soul-saving man who never yet, in a case of real need, failed to help a brother who was in a position to help himself, he wrestled with nature and conquered seeming impossibilities in his Tobit-like TUROR of burying the dead. Though the ground was thus, as it were, unchangeably pre-occupied, no man can say that Mr. Nash turned back sorrowful the applicant for a grave, though he were the last of fifty in the day, for any imaginable reason, save one-that he had not the money to pay for it. But to be just to Mr. Nash we must be less general in our landations, and we have one incident to mention, which, if taken, as it may be, as a sample of his general management, will do, in a few words, more justice to his high

turgid with praises as a French Oraison Funebre.

Some short time ago, a Mr. Moreland, builder, in Old Street Road, St. Luke's, lost a female relative. A man of some acquired wealth, he seized the oceasion of her death for the election of a family vault, and the site chosen—we never dispute about the vagaries of rich men's tastes-was the Tabernache grave-yard, Tottenham Court Road. The precise spot chosen, the gravedigger begun his work. What was the beginning? There are railings separating the dead within, from the living population without. These, raised some time ago, not only allowed the gases to pass out, but the people to peep in. The railings were carefully blocked up-in the words of our informant, "boarded all over." But there were houses around-high houses, overlooking the yard, and though the inmates might on ordinary occasions be kept ignorant of what was going on, by the sexton --- we beg pardon, the digger-using very late or very early hours; not so now, for the new grave was urgently required, and there could be no remission of toil. A tarpauling scaffolding was, therefore, erected over the grave, which "let the light in, but kept out eyes." Our readers, perhaps suppose, that in the hurry for the completed grave, Mr. Nash-or the chapel clerk, or minister, or Mr. Moreland himself had to aid in digging-and that these were delicate precautions to save them from observation in so unusual a position. Not so. The usual grave-digger did all the work, and what occurred while he did so, showed, that there was a better reason for these expensive and troublesome preliminaries. The grave-digger threw out but a few shovelfulls of earth ere he came across some children's coffins. These were soon disposed of; they were erushed into a hole readily dug for them. Next came, at the head of the grave, a tier of six or seven eoflins, fresh and solid-buried but a !ew months. The knife, the saw were usedthe heads, the feet, were respectively severed-the different members forced into the narrowest hole that could be made to hold them. At the foot of the new grave, the heads of two coffins jutted in. How were these got rid of? The intruding portion was partly sawed, partly chopped away-the wood was thrown up, and the separated extremities, forced back into the remaining portion of the coffins. Far into the left side of the new tomb the thinner end of a coffin abutted. It was severed of course, and a woman's legs wrapped in lamb's wool stockings, perfect as at the moment of death, were exposed. former, the enstomary coarse of treatment, was repeated. This is the briefly given history of one grave-making, in which the sickness — the half-asphyxia — the terminating beastly drunkenness of the digger - the liquid animal decomposition - the wheelbarrow loads of bones and old coffin wood, and a hundred similar circumstances are not even mentioned. But thus unexaggerated -- thus curtailed-what is the history's imseries of about six papers on "the Diseases of Cotton | characteristics than an article as long and pression on our readers ! Do they see now

the reason for the boarded railings—the tarpauling scaffolding? Do they catch a better glimpse of what makes a good London sexton? And now what think they generally of the decent, the healthy, the enlightened system of metropolitan inhumation? If it disgusts much, it depraves more. But enough of this Tabernacle of unholies!

PENCILLINGS OF LIVING MEDICAL MEN.

ST. THOMAS'S HOSPITAL, MR. GREEN.

The savage rage to destroy the ancient mounments and eathedrals of England spared not many of our hospitals, the relics of the piety and b nevolence of our forefathers. The endowed and noble institutions erected for the relief of the indigent and afflicted, participated in the general ruin. Their ample revenues invited the hand of heartless spoliation. Fortunately for humanity, St. Thomas's Hospital, which we are about to sketch escaped: its history is calculated to cherish and keep alive that pure, exalted, and sacred spirit of charity for which this country has ever been distinguished. Egypt may boast of her pyramids, mighty monuments, of the skill and vanity of her children, with feelings of proud and sublime exaltation. - England can point to this glorious record and evidence of the early inherent, hereditary, and imperishable beneficence and goodness of her inhabitants. Knox said of the cathodrals "the best way to prevent the rooks from returning is to destroy their nests." Dugdale relates instances in which his fanatic followers disregarded his vile instigations, and that even in the times of the Commonwealth, when all vestiges of the piety and benevolence of our ancestors were sought to be erased, that many of the humblest classes shrunk from laying their sacrilegious hands upon many endowed institutions. some such feeling, as well as from the protection of the citizens of London, the property of St. Thomas's Hospital escaped state appropriation. The priors and canons of St. Olave, and Peter de la Roche, Bishop of Winchester, were its founders. He retained upon its dedication, a visitorial power, or guardianship, over this institution, and bestowed property to the value of £343-a sum which, if calculated according to the value of the time, was amply sufficient to render it capable of fulfilling the beneficent intentions of its founders.

With it was connected also the almonry, a house of hospitality, an asylum for the accommodation of poor wayfaring pilgrims. This was about the year 1200. The names of those who This was contributed to this glorious work of charity were lost in the general wreck and confusion of ecclesiastical property at the time of the reformation, which, in its zeal for principle, did not forget to possess itself of the property of the church.

The doctrine of the Church of Rome, which

affirms that the practice of charity was essential to salvation, was instrumental in creating and supporting such institutions.

In the reign of Edward VI, a charter was granted to the corporation of London, giving it the entire disposal of the confiscated edifice of St. Thomas; it was dated 1551. The corporation, which paid a sum of money for it, added to its funds, which were impaired by the pious propounders of the reformation.

The officers who received salaries were—the chaptain, £10; the physicians and surgeons, each $\mathcal{L}15$; the steward, $\mathcal{L}6$; the butler, $\mathcal{L}6$. lord mayor and citizens nominated from themselves the requisite number of governors. It was destroyed by the fire of London. It was rebuilt by the liberality of the citizens, who, in the short space of three years, contributed thirty-seven thousand pounds for that purpose, Clayton, Guy, and Frederick, being the largest donors, whose generosity shed a lustre upon the land that gave

St. Thomas' Hospital consisted of two quadrangular red brick buildings. In the first stands the statue of Edward the VI.; in the second, that

of its great benefactor Clayton. There are detached houses for the officers of the establishment, with a detached building for accidents. The part which faced the thoroughfare leading to London Bridge has been removed, and its site is occupied by two wings running north and south, which are of the most modern style of architecture; lofty, spacious, well ventilated, they are on a level with the new street, which is several feet above the new square. The staircases are stone, the whole structure grand and massive. The wards are double the height and width of the old buildings beds are farther apart, and the comforts of the patients, of the sisters, or attendants, are not sacrificed to taste or design. It is a credit to those to whom the administration of the hospital is entrusted, and when the whole plan is carried out, it will be a magnificent monument of the munificence of the citizens of London, with whom the flood gates of charity once opened, golden streams flow in from a thousand sources. The first idea is generally to administer relief to the suffering; little care or wisdom is bestowed on the management of these funds, and from this neglect all the "em-bosomed sores and headed evils," gross corporate, and private embezzlement, nepotism, favouritism, incapacity, intrigue, and various other mischiefs, proceed, that totally counteract the good intentions of the donors, injure much and endanger the happiness, comfort and safety of the patients. In many instances, the properties of the charity are prostituted to the worst of purposes, as proved by the investigation undertaken, but greatly to the dishonour of that erratic and eccentric nobleman, Lord Brougham, never completed. Situations are created with enormous salaries for the relatives, dependents, and friends of the governors, the offices of surgeons and physicians, whose competency is the fleast thing considered, are decided by ties of consanguinity, and affinity; all are, and have been, nice snug family or matrimonial arrangements. Sons and cousins, daughters, nephews, nicces, and the most distant ramifications of the genealogical tree are provided for, as will be seen in the history of the several individuals we are about to sketch, connected with the hospitals of Thomas and Guys. As may be expected, some of those introduced by these illegitimate means are clover men, others have not the slightest pretensions to the character. Talents and knowledge are not transmitted from father to son, they are personal, they are born and die with the individual.

The sons of the greatest men have been the greatest fools. It is natural that the son should inherit the property of the father. It is not just nor natural that he should usurn the privilege of experimentalizing and tampering with the lives of the poor. This system, by its workings, is not morely injurious to science and to deserving morit, but it is cruel, and even murderous in some instances, to that class of society which should have our sympathies, and which cannot befriend or proteet themselves. In no hospital in London has nepotism been so offensively powerful as in Guy's and St. Thomas's. All the situations descend in lineal succession in two or three families, who bave monopolized them for nearly a century. The exceptions are rare, and in favour of an occasional intruder whom aldermanic influence or champagne dinners have introduced.

The principal surgeon of St. Thomas's is Joseph Henry Green, F.R.S., Professor of Anatomy to the Royal Academy, &c. &c. He is the nephew of the celebrated Cline, and one of the Council of the College of Surgeons. He was associated with Sir Astley Cooper in his Lectures on Surgery and Anatomy, and took the place of Henry Cline, a promising young surgeon, who died in early life. He is of a very tall, commanding figure, being fully six feet in heighth; he is beginning, by years and the gout, to incline a little forwards from the perpendicular, and his clothes begin to hang rather loose upon him. His features are regular and pleasing in detail, and are expressive, in the aggregate, of intellectual power. His countenance is placid and amiable, slightly indented with the effects of small-pox; hair, light and sandy; chin, rather long and edentalous. On the whole, there is an ease, an elegance, a state of dignified repose.

gentleman and accomplished scholar, which is generally accorded him. He goes round the wards three times a-week. He is courteous to all, now and then, when not wrapped up in his reflections upon the inflections of Greek verbs, or in his dreamy idealities, or German metaphysical speculations, he is communicative. The mind, in him, is deeply fraught with classical literature; it seems to be interwoven with the very fibres of his understanding. The display of learning in him is natural and irresistible. It is not pedantry, or a desire to astonish by his acquirements. He thinks aloud in the dead longuages.

The other day he ordered a man, who had injured his spine, to walk across the room. The patient complained he could not feel his feet; he made a quotation from Homer, describing him as treading on air." One of the students naively asked another, if he would find a description of that disease in Cooper. Of the merits of this gentleman there are the most conflicting opinions. Some of his pupils contend that he is the first operator, the most eloquent professor, the most skilful surgeon in the metropolis, and

"They would draw A fulfless monster, which the world never

Others, less prepossessed, subtract too largely from these superlative panegyries, and depreciate his merits overmuch.

We will recite his chief professional performances, so that every reader may place himself in the judgment-seat, and award the amount of claim he has upon his brethren.

In the session of 1821, he delivered the introductory to a course of lectures, in which his opinions recently expressed and advocated, are advanced with the same arguments, illustrations, and quotations, as in his pamphlet on medical reform. This lecture possesses all the freshness and integrity of an original thinker. It has none of the florid and figurative embellishments that detract from his more matured and polished productions. There are none of those narratorial interruptions of undisguised plagiarisms which mark the clumsy compilations of some of his cotemporaries. He thinks for himself in a healthy tone, and in a way peculiarly his own. His refinements are in the matter, not in the language of his discourse.

As a practical surgeon, we find that in 1827, he operated on forty cases of lithotomy, and lost only one. This success created a great sensation at the time, as it is unequalled in any country, and in any other person's hand .- Mr. Martineau, of Norwich, the most successful of all, out of eighty-four lost

two. Mr. G. uniformly uses Cline's gorget. In 1830 he was appointed to the professorship of surgery in King's College. At the commencement of his career, he suffered under a formality and mannerism which he could not shake off. On the opening of the session no man could be more eloquent in his address; his deportment simple, chaste, refined, dignified, and most successful in impressing his principles and points of practice on his class. It was much admired; it was delivered in a most masterly and effective style. It began with a lucid exposition of the connection and relation between the three great professions, law, physic, and divinity, the common root of which he proved to be science. The law, he contended, preceded the others, as, in its extended sense, it includes both the legislation and the administration of the laws. -He took an historical retrospect of the monarchy of Egypt, the priesthood, its practices, Moses, Hebrew laws of morality and Hygiene, the science of moral obligation, the Levites government of medicine; then a review of the laws of Minos, Solon, and Lyenrgus, the Theodosian code, Christianity, its metaphysics and ethics, the scholastic age, separation of divinity and physic, the causes, the reformation-when astrology had faded away before the dawn of true astronomy, and the last dreams of alchymy, in the ascending light of chemistry,-Harvey and his discovery, Stahl, Boerhave, Hoffman's fatro-chemical school, how John Hunter laid the grounds of harmonizing the distinctions, shewing that life, or the principle of vitality, is the activity of function displayed through organization-that this vital principle is necessarily in order, antecedent to organization; that harmonizes with the character of the finished and its essential condition; and how he placed the seal on his great labours by including the human anatomy in the science of comparative or universal anatomy, and the lecturer concluded in a glowing and enthusiastic cologium upon the merits and benefits to science of this truly great man, and on the pleasures, delights, and glories of ancient literature and its alumni, Oxford and Cambridge.

This was the most brilliant lecture be over delivered. In 1831 he wrote a pamphlet called, "Distinction without Separation," addressed to the president of the College of Surgeons; the inference from which, we presume, is, that he means the distinctions between physicians and surgeons do not really exist, and that the present division is highly injurious. He defends the college, and denounces the general practitioner; and a little further on he declares the former must be reformed, and that the latter have just cause of complaint.

About this time he entered into a wordy warfare with the medical press about the publication of his lectures, in which he was severely handled and totally discomfited. He published a dissector's

manual, which is never read.

In his evidence before the parliamentary committee, he declared the whole of the evils of the profession were in the student's education. He would make the council self-elective; although it has caused some dissatisfaction, he declared there was no ground for it. He does not approve of Concours. The distinction between surgeon and physician he considers highly beneficial. He is averse to the representative principle which governs every other associated body in the kingdom except ours. He gave no reasons for this opinion, and frequently contradicted himself. It is a tissue of nonsense, absurdity, illiberality, and illogical reasoning. In his "Touchstone of Medical Reform," he abolishes the Apothecaries Hall. He gives the requirements necessary for a general practition r. He pitches the standard very high; one of which, that he must be a gentleman,—and yet to this imaginary being, he denies the principle of selfgovernment, and gives it to a class of beings called pures, on the principle of Incus a non Incendo, who are daily invading the boundaries of every branch of medicine, and pretend to practice surgery ex-

In a letter to the Times, 1834, headed "Suggestions respecting an Intended Plan of Medical Reform," full of strange, far-fetched, quaint language and fanta-tie distinctions, in which, here and there, are to be found a few grains of sense in a bushel of chaff; he enters into a long category of qualifications, and that the pupil should have a sound classical and mathematical education, in which we agree with him, as we hold that the member of a liberal profession should have a liberal education. He concludes with the monstrous proposition of higher and lower grades, under very long and unintelligible names.

His style through the pamphlets and sugges-tions, are fine specimens of the transcendental; he is radical now and then in his theory, but rigidly restricted and narrow-minded in his practice : his better judgment seems to be obfuseated by the gross atmosphere of selfishness in which he lives. moves and has his being. In 1840 he delivered the Hunterian oration. After a very extraordinary nd allegorical exerdium, he, in his own metaphysical way, endeavoured to explain the idea which occurred to John Hunter's mind. Preparatory to this, he entered into an elaborate elucidation of the metaphysical notions entertained by the deservedly celebrated Coloridge, his intimate friend and congenial spirit; whose wild and visionarynay, poetical and subtle notions, are intended to subvert the Utilitarian specultaions, prevalent in the present day. He rendered it most enrapturingly mysterious and incomprehensible, by employing abstract metaphysical terms in a sense different rom their accepted significations, and by coining several new words, and by the profuse employment of metaphors, Greek and Latin quotations, praises of Coleman, Cline, and Cooper, and whole pages from the mysticism and periodical works of Coleridge, neumenou in contra-distinction to phenomenon, Coloridge's notions of church and state-this lecture he called on vital dynamics. He says truly, the forming of an hypothesis precedes the inductive process.

In the aptitude to form theorems consists the force of what is called the inventive powers. Dalton possessed the faculty when he bedied forth the dectrine of definite proportions. The inventive genius of Faraday and Oerstad struck out the idea of a new dynamic principle; this lecture is published; we confess we derived neither pleasure nor instruction from its perusal. Common sense is overwhelmed with learned research, with the weight and length of words, with the number of quotations, with metaphysical speculations quite irrelated, with metaphysical speculations quite irrelative to the subject. He was obliged to write an appendix to interpret the lecture, and to deliver a recapitulatory lecture to explain the appendix.

His opening oration at the new school of Thomas, this session, was well attended. The style was more subdued and sensible than the Hunterian oration, more adapted to his audience. science and art of the profession, its progressastrology to astronomy, what empiricism is to medicine-their analogues-the intellectual chaos, and bewilderment of the one, yielding to the reflective rationale of the other; then a review of the I'tolemean with the Newtonian system-Kepler's anticipation of the sublime geometry of Newton, and here the lecturer careered in the clouds, and used the fact as an illustration of the perfection of art or science. Then electricity afforded him space to launch into its wonders, its mysteries. Amidst this learned rhapsody, there were noble views beau-tifully expressed. The orthopy of his Greek quotations was music to our cars, accustomed to hear that fine language murdered by animals who try to make the world believe they understand, when they are ignorant of the accent, uses, power, and pronunciation of its alphabet. In this, as in all his discourses, we had the old sophism, cum hec propter hoc. The anecdote of Louis XIV, and the quack, quotations from Bacon, were given, and it ended with an eloquent denunciation of all species of empiricism. It was much applauded.

When we reflect on his great opportunities, and contrast them with the little he has done to record its results, a singular contradiction arises, and acomparison with other men is the result. We are told he possesses genius—the essence of his own vital dynamics. We know he has had extensive practice—has he added to the boundaries of science or to operative surgery? His setons in hydrocele, are not original. The test of genius he lays down, himself, is to create, to discover, to improve, what

is already known.

He has great and extensive merits; they are, too, of the highest order,—they are not of a practical character. Yet he is a splendid surgeon and operator. We mean, he has not that great attribute that immortalizes the possessor, and draws the line between great genius and pre-eminent talent. His lore is profound,—his whole career a glory to his prefession. Personal property has placed him above professional competition. He lives in Hadley, and is universally esteemed. He has troops of friends and admirers. With Horace, we pray, "Ut serus in calum redent."

PROBE.

THE MEDICAL CORONER.

To the Editor of the ' Mi bical Times.'

Str.-In your valuable and widely-circulated journal of November 12th, you have, under the heading of " Cheapness of Medical Coroners," clearly shown to the hitherto-duped Profession what a very disinterested friend they have in the selfelected champion of Medical Reform. Your remarks at the above period were wonderfully apropos, but "coming events often cast their shadows before." Covetousness after this world's lucre scents to be, in some, more consuming and unquenchable than * * * In your Journal of December 10th, you have again reminded the Profession of their rights, by publishing some important clauses from the Act regulating the " payment of medical witnesses at Coroners' Inquests. -" The Coroner is empowered to summon on an inquest the legally-qualified practitioner who attended the deceased at his death, or during his last illness."—" Or, if deceased was not so attended, to collecting and preserving them. The farmers

summon any legally-qualified practitioner 'being in actual practice in or near the place where death Now, Mr. Editor, is the Coroner happened. guilty of any breach of the Act, if he, knowing the patient has been attended, till within two days of his death by a respectable man, summons another medical gentleman upon the inquest, who knows nothing of the case? Does such a plan of proceeding not necessarily incur a post mortem, and, consequently, unnecessary expense upon the county? Next week, if you will afford me space, I shall furnish you and the Profession with such facts as will open their eyes, if not hermetically scaled—facts that will arouse just indignation in the heart of every honourable member of society. I will further assist you in shewing the Profession how they are fleeced of their just rights, and their hard-carned character calumniated by our M.P., the IMMACULATE HYENA. A tale shall be brought to light, of which others, more deeply interested than the writer, seem unfortunately to be totally ignorant. I only wait to see what this week discloses!

> Yours always, No Gull, Tom Peachum.

Dec. 14th, 1812.

[If any charge be made against Mr. Waklev's discretion, or honesty in the discharge of his magisterial duties, our informant must communicate his name in confidence to us. The moral presumption may be very strong, in particular cases, of the truth of a correspondent's charges—but, where character is in question, we prefer to approach certainty as nearly as possible.—Ed.]

REFLECTIONS ON THE "TRUE AND FALSE" STUDY OF BOTANY.

(from a Correspondent.)

A rew remarks on the present mode of studying botany, and the cause of its being productive of so little real benefit may here be not uninteresting to the reader. Being in medical practice myself, and having paid great attention (as I still continue to do) to the delightfully agreeable and simple study of botany, and to the modes of advancing the utility of this science adopted by professors both at home and abroad, a few remarks on the ordinary, unprofitable, and what I consider the really beneficial mode of attempting to answer the sought for ends of this occupation will I hope not be considered as an attempt to deny the advantages of hotany, but to change the ordinary mode of studying it, from what it is, i.e., that of drying, collecting, arranging and unarranging plants, to the really proper mode of considering plants in their natural relation to inanimate and animal matter. as beings that, are placed between the two for the sole use of animals. Many persons, and some of good fame, have denied the utility of this study; and I must say, considering the number of years, and good men who have engaged in it, the results are comparatively nugatory. I must not be misunderstood here in saying that, the results have been nugatory: I mean to say that beyond the mere conveniences of reference and description, botany has been silent in its productions. The real utility of this science consists not in merely affording pleasure to those engaged in its pursuit, but by its ends affording results which can be advantageously applied to the comforts and happiness of human life. But advantages of this sort, notwithstanding the enormous accumulation of botanical knowledge. have never yet appeared; the important uses of many vegetables would never at this time have come to light, had it not been for what I may call " botanical quacks," i.e., persons studying the culture of vegetables in the same manner as quacks study medicine. Let us examine the occupations of the most eminent botanists, and also those of the most eminent farmers and gardeners (botanical quacks.) The former are almost exclusively engaged in compiling large ponderous volumes of the external characters of plants, sometimes but rearly diving into the interior; the foreign authors have, however, done considerably more than our home Well, then, here we have men devoting their whole lives to the external characters of plants, arranging them, comparing their externals, and gardeners are occupied in just the reverse, leaving all structure both external and internal, they devote themselves entirely to the culture or growth of vegetables, all their facts being obtained by pure experience, and are not attempted to be explained. We have here no interveners, no men who are engaged in scientific investigations and on practice also. Has the knowledge of animal anatomy and physiology been thus advanced? Certainly not. No organs in animals (whose external characters are almost omitted in the study of these beings) are viewed without a consideration of their corresponding functions; but in the study of functions are comparatively never botany the functions are comparatively never considered. We can see and readily understand the use of four stomachs in a gramniverous animal, and of only one in the carnivora, but the use of the internal vegetable organs we are almost entirely ignorant of. All their varieties, and which we must suppose not to be without their use, are in a physiological view perfectly unknown. Has our knowledge of the functions and structure of the lower animals and ourselves been advanced solely or almost exclusively by the arrangement into artificial or natural systems? No! But to this point, nearly all our hotanical labours are directed. In plants, as explained above, we have not the anatomist and physiologist at work together, but each separately and in his own way. Comparative or human anatomy is never considered (or rarely) apart from function. We have thus learned the use of various structures in performing functions. both relating to the constituents of the body itself and the surrounding influences and agencies to which it is exposed. Also by experiments we have been able to ascertain the effects exclusively of different atmospheres, diet, medical agents, &c., as well as such varieties of these means as will produce effects almost at our own disposal. Thus we can repress or increase the growth of certain parts, render the body exposable without injury to otherwise noxious agents, obviate their effects when taken, &c. Butwhat real benefit (save convenience of reference or communication) could physiology or anatomy receive from the most complete or even perfect arrangement of animals. But this (in botany) is what is occupying, or rather wasting the time of most of our scientific men. The gardeners and farmers laugh at them, and tell them they will produce fine crops of corn and vegetables without any of their "theory." The true use of bo tany, so as to be of utility to mankind, must be in a somewhat similar one to that which has advanced anatomy. We must leave the classifications, to devote time to find out the use of the different organs, their growth, &c. The "quack" botanist ean and does continue to improve the culture of vegetables, so as to render those naturally poisonous, not only not injurious, but actually beneficial and conducive to health. How this is effected he knows not, nor does he care. The botanist should know the tissue in which the novious principles are placed; and the sources whence they are derived, or at least the causes of their production. But does he? No. He knows nought but what the gardeners have found out by experience. As it is at present, botany is little else than sheer waste of time; and all the arrangements of plants according to what are called natural or artificial systems, must be looked upon as merely conveniences, whereas they now occupy the side attention of botanists. Any person not wedded by vile prejudice to the ordinary views, must be aware that every year new plants are being found, which cannot be referred to any now existing "natural order," and, therefore, unless we had the characters of 'all the plants on the earth, we could not say whether any unknown one was poisonous or not. To distinguish a harmless from a poisonous plant has been considered as one use of botany to medical men; but the fallacy of such an use has been explained above. Mereover, the cases in which this could benefit, i.e., in people who are in unknown countries, or in those whose botany is unknown, are very rare. Whereas in the largest and most populous cities the selection of poisonous plants for medical use (and those too virulently so), is entrusted to the hands of a gardener or chemist, totally unacquainted with botany in any

sense of the word. I hope these remarks will have a tendancy to the following ends:-

1. To persuade those botanists, who have time and means, to do as Liebig has commenced; (but which even with that celebrated philosopher will never answer its full ends, he not being a good botanist) viz., to connect plants with external influences, on the varieties of which we have reason to believe their properties solely depend.

2. To provide competent persons to select

plants for medical use.

3. To employ botanical talent to other and more valuable ends than the drying and collecting plants, making natural orders one day and altering them the next.

4. To lay before the medical examiners the propriety of requiring of medical students some knowledge of sound philosophical botany; and leaving all the natural system humbug, which always has been, and always will be, varied by

every author's whim and fancy.

I hope, and carnestly look to the time, for something like the advancement of real botany. The long continuance of the old method of examining the external characters merely, and thus judging of or totally neglecting the interior (on whose variations the exterior is totally dependant), has advanced nothing more than the mere making long lists and then altering them.

FOREIGN LIBRARY OF MEDICINE, SUR-GERY, AND THE COLLATERAL SCIENCES.

[Exclusively compiled for the "Minical Times," from Licach, Italian, and other Continental Periodicals.]

Scholler, Dick untsliche Prühgehurt, Se-On Artificial Premature Birth, effected by the Tampon, Berlin, Syo, -- KRAI SE, Handbuch der Mensehl Anatomie -Manual of Human Anatomy. Hamnover, Halm. Syo.- :- HENKE, Dr. A., Zeitschrift für die Stantsarzneikunde. Erlangen, Svo.—Journal for State Medicine, pr. 1 R(hlr. 15 sgr.——Cura Progediens. odor-Cura Progediens, or an essential reform in the practical healing art, in respect to general medicine. Dusseldorf. Svo. pr. 10 sgr.—Meyer, Amress—Historical notices upon the first appearance of Syphilis in Switzerland. Zurich, 8vo.-Schweizerische Zeitschrift für Natur-und Heilkunde -Swiss Journal for Physiology and Medicine. Zurich, Svo. — Michael, Gedanken ührr die Cholera, Sc.—Reflections on the Cholera, Celle, Svo. 20 sgr. — Widner, Die Wirkung der Ar neimittel, &c. - The Operation of Medicine and Poison in the bodies of healthy animals. Munchen, 8vo. -- Eneyclopadieder Anatomie, with explanatory text by Dr. Th. Richter. Leipzig, 40.——KUFELAND'S Journal der Pract Heilkunde. Edit. Dr. Fr. Busse. Berlin, 1842 - Journal of Practical Medicine, pr. 5 Rihlr. 20 sgr.—New Zeitschrift für Gehärtskunde. DD. Busse, D'Ontrepont, Retger, and Siebuld-New Journal for Midwifery. Berlin, 8vo. --Kubener, Die Lehre von der Ansteckung, Se. -The Doctrine of Contagion, with especial reference to Medical Police. Leipzig, 8vo. -- Iranci Tave für das Königreich Bayern Medical Tax for the Kingdom of Davaria, Wurtz, 8vo. pr. 111 sgr. ALEXANDER, Dr. A., Physiology dec Menstruation. Limburg, p. 95.——Anthroplastic; or, the hitherto unknown Artificial Hands and Feet, from the MSS, of Professor Kluge, described and figured by Dr. H. E. Fritze. 26 lithograph plates, --- WILD-BERG, Dr., Entwurfeines Codex Medico Forensis Draught of a Medico-Forensic Codex, composed for the practice of Forensic Medicine. Berlin, p. 64. -Ruze, F. C., Taschenbuch der Konigl. Preuss. Medicinal Gesetz für Aputheker-Pocket-book of the Prussian Medical Laws for Apothecaries, p. 124.—Magazin für die gesammt Heilkunde— Magazine of United General Medicine, founded by Dr. J. N. Rust (Edit. Dr. W. Eck), Vol. 59, Berlin, 1842, with copperplate title-page and 3 lithographs (the 3d part). The contents of this part are-9. On the import of the feelings of the body in a healthy and discused state, by Dr. Brach.—10. Hernia Diaphragmatis congenita, and an attempt to explain its manner of arising, by Dr. Schöller.—11
The saline bath, Elmen, near Salze, in the circle pp. 46, 47.

of Magdeburg, in the year 1840-1, by Dr. Lolimeier, Bath Physician of that place .- 12. The Orthopredic Institute of Paris, with especial reference to Orthopodia in its present point of view.—13. Miscellaneous.

* The German works above announced, may be had through Mr. Alexander Black, 8. Welling-

ton-street, North.

PERISCOPE OF THE WEEK.

LOCAL TREATMENT OF CHANCRES BY SULPHATE OF COPPER AND CYANURIT OF Mercury.-Dr. Strold recommends the sores to be dressed five or six times a day with charpie, which has been soaked in a solution of about a grain and a half of sulphase of copp r, to an ounce of water. Simple chancres when thus treated, usually heal within twelve days. Dr. Strold assures us that he cures complicated chancres in an equally short time with an ointment composed of two grains of cyanuret of mercury to an ounce of axunge. This ointment is spread upon a piece of linen corresponding to the size of the sore; it is apt to be painful at first, and must occasionally be removed after it has been on for an hour or two, and the remedy must be applied in a weaker form. When the chancre is extensive and painful, after the ointment has been on from four to tenhours, according to the sensibility of the patient, it is dressed with mercurial ointment, or opinin cerate.

SUPERACETATE OF SODA IN THE WRAP-PINGS OF A MUMMY .- On moistening, says, Dr. H. Johnson, in the Chemical Gazette, a portion of mummy-cloth with distilled water and applying litmus paper, the latter became reddened, proving the presence of a free acid: the same effect was observed in several different portions of the material. I desired, therefore, to know what was the nature of the acid.a. Some of the minimy-cloth was infused in cold distilled water; the liquor reddened litmus, and effervesced with biearbonate of potass; evaporated to an extract and mixed with strong sulphuric acid, it yielded fumes which were recognised as *nectic pyroligneous acid* by the smell. -b. A portion of the liquor (a.) was distilled in glass vessels. A transparent, feeblyacid liquor came over, which, being free from the vegeto-animal matters dissolved by the water, seemed to afford the usual reactions of acetic acid. -It gave no precipitate with solution of acctate of lead, muriate of baryta, or nitrate of silver (except when concentrated, in which case it was crystalline),--The liquid remaining in the retort was more strongly acid than what came over in distillation; if contained much animal or vegetable matter, imparting to it a high colour. It was saturated with bicarbonate of potass and then evaporated to an extract; and on adding sulphuric acid, the pungent and characteristic vapours of acetic acid were distinctly perceived. The acid here present could therefore be none but the acctic. On referring to Mr. Pettigrew's work (p. 76), I find that M. Ronelle obtained an acid liquor by distilling the bituminous matter contained in a munmy. He does not state what was the nature of this acid; and, it may be remarked, that as obtained by him, in the destructive distillation of these substances, the acid and oil which he describes as coming over were probably not contained in the materials of the munmy, but were produced in the process. They were products, not educts, of the distillation. Mr. Pettigrew (p. 62) conjectures that a considerable heat was employed in the making of mummies; and M.

^{*} See Parnell's Elements of Chemical Analysis,

Rouyer, whom he quotes, supposes that the bodies must have been put into stoves in order to bring about a union of the resinous and animal matters. What Mr. Pettigrew and M. Rouyer conjecture we may now, I think, positively assert :- 1, because the mummy recently opened here (in Shrewsbury) by Mr. Birch had evidently been quite charred; and of this a piece of the bandage now before me affords visible and indubitable evidence; 2, the presence of acetic or pyroligneous acid in the wrappings is another proof of the fact. The charred state of the wrappings proves that after their application the body has been subjected to a heat equal at least to 300 deg. F. This temperature would decompose a part of the pitch and resinous substances, and produce a quantity of acetic or pyroligneous acid besides other matters, such as empyreumatic oil and creosote. The utility of this operation is quite obvious: it would not only cause the bitumen and resin to melt and combine with the animal matter of the corpse, but the abundant escape of pyroligneous acid, creosote, &c., and the impregnation of the whole nummy and its wrappings with this would greatly tend to preserve the hody from decay. Hence it appears that munimies were prepared or "cured" much in the same way that Westphalia and other hams are at the present day; namely, by pyroligneous acid; and, as suggested by Mt. Cormack, by creosote.*—The peculiar yellow colour of the bandages I have no doubt is produced in the operation of "smoking" the mummy, and arises from the empyreumatic, oilv, and some extractive matter dissolved by the acetic acid as it is evolved. The colouring matter is soluble in water and in alcohol, and seems therefore to resemble extractive matter of chemists. Solution of persulphate of iron deepens the colour but does not render it black; hence it cannot be astringent matter. Herodotus tells us the body of the mummy was covered with nitre of natron, i. e. native carbonate of soda. The truth of his statement is borne out by the crystals collected and analysed by Dr. Grenville, and the examination of a saline matter discovered by Dr. Ure. Saline particles were also discovered in the opening of the mummy here (in Shrewsbury), but unfortunately they have been lost .- If the account given by Herodotus be true, that the body was covered with carbonate of soda, and as I have endeavoured to show, acetic acid would be produced and given out in the process of embalming, the carbonate of soda would be converted into acetate, or from the excess of acid into the superacetate of soda; and that this has happened I have proved to my own satisfaction by the following experiments: Some of the wrappings were digested for an hour in distilled water. The liquor was evaporated to dryness. When much concentrated it was found decidedly acid. The solid extract weighing 7 grs., was heated to redness, and thus reduced to a white ash mixed with some charcoal. The ash effervesced with muriatic acid; it dissolved in water, and the solution rendered turmeric paper brown, and restored the blue of litmus reddened by an acid, Evaporated to dryness, it left a white crust, not deliquescent, but soluble in water. The solution exhaled bubbles of carbonic acid on the addition of a drop of pure muriatic acid; and this solution gave no precipitate with solution of

muriate of platinum. It was, therefore, carbonate of soda, and no doubt some of the natron, which had been used in the preparation of this mummy more than 2000 years ago. It remains for others to verify these results by

similar experiments on other mammies. OBSERVATIONS ON COPHINA BALSAM. Copaiva balsam, says, M. Vigne, is derived from Columbia, Brazil, Peru, Cayenne, and the Antilles. None appears to come from Mexico. The best is that imported from Maracaibo and St. Martha, which is packed in oak casks containing from I to I cut., in large bottles, or in cylindrical tin boxes. boxes contain about 6 kilogrammes, are closed at both ends by flat soldered lids, and the one lid has an aperture in the centre, which is closed by a square piece of tin-plate soldered on This mode of packing renders all adulterations very difficult (excepting naturally such additions as are made when it is collected, for instance chalk, to saturate the free acid,) but the balsam seems to change very much in these boxes. The author examined samples from 12 boxes obtained at the same time and from the same locality; but not one agreed with the other, not one was entirely soluble in alcohol, and smell, taste and consistence were different in all. In those boxes from which the balsam flowed out, clear crystals were deposited, which were obtained perfectly white by means of bibulous paper; but no such sediment was found in the opaque balsam; this did not clarify even on being left to stand, but when kept in a moderately warm place deposited a resinous substance quite distinct from the crystals. The clear balsam dissolved nearly wholly in alcohol, the opaque always less, sometimes scarcely at The most opaque and least soluble in alcohol did not even clarify on being treated with ammonia, while all the others formed with it a clear solution. The crystallized resin dissolved abundantly in hot alcohol, but separated almost entirely on cooling: the solution had an acid reaction; while, on the other hand, neither the balsam nor the resin which had separated from it possessed acid properties. The author further examined 12 different samples from St. Martha, which had been imported in oak easks. They were likewise all different, although in general more transparent and thicker than the former. The following experiments were made with the best, perfectly transparent, amber yellow, aromatic smelling, samples of the consistence of turpentine.- With 1-20th magnesia usta it became in 24 hours like a thick gum slime; after 48 hours it was considerably thicker, and subsequently acquired a good pill consistence. It did not dissolve in an equal part of alcohol of 0.914, but afforded a milky mixture, which soon separated into two layers, of which the upper one contained but a little copaiva. Alcohol of 0 900 dissolved it in every proportion at 59 deg. F. A mixture of 2) balsam and 1 ammonia soon became transparent, and might be heated to 212 deg. Fabr. for half an hour without any change taking place. On boiling it with 50 times its weight of water the balsam lost half its weight in æthereal oil. With caustic potash it afforded a kind of emulsion, upon which the saponified balsam soon swani, Only one of the other samples gave a good mass for pills with 1-20th magnesia; two became somewhat more con sistent, but not sufficiently so; three became thick at first, but subsequently liquid again; and four did not change at all, but deposited the magnesia. The second sample afforded with ammonia a clear constant compound, with the two next the combination was less constant; the fifth and sixth only became clear after some time; the others remained opaque, Not one sample dissolved entirely in alcohol of

sp. gr. 0.914; the more pure in every proportion in alcohol of 0.900; the last sample, even with this, separated into two layers. The loss in athereal oil was about the same in all the samples, but the last lost 70 per cent, instead of 50. It is evident therefore that the power of dissolving in alcohol, of becoming consistent with magnesia, and of entering into a constant combination with ammonia, are nearly parallel; but these properties evidently depend on the amount of acid resin, and the thicker balsams therefore exhibit them in a greater degree .-The last sample, which had a very agreeable smell, and was very liquid, nearly colourless, perfectly transparent, and stated to be from Para, contained evidently more athereal oil and less resin than the others, and on account of its imperfect solubility in alcohol was considered to have been adulterated with a fat oil; but the residue from the distillation was dry, and that was consequently out of the question. When kept for a king time in a badly stoppered bottle it became gradually coloured, and more soluble in ammonia and in alcehol, evidently from more of the oil being converted into resin. -The author further examined two samples of balsam from Para, which were considered to bave been purposely adulterated with rancid oil of almonds. They dissolved well in alcohol, but combined badly with magnesia and ammonia. Direct experiments showed that pure copaiva balsam may be adulterated with 50 per cent, of a fat oil (nut oil, almond oil), without its ceasing to give a clear solution in 2 parts alcohol. Only after from 12 to 15 hours does the oil separate. Excess of alcohol separates the oil in all cases. It is evident therefore that under certain circumstances an unadulterated balsam may be insoluble or of difficult solution in alcohol; an adulterated one, on the contrary, may be soluble. The best test for detecting the fat oils would be alcohol to which some caustic potash has been added.

Anomalous Suppuration of the Cere-BRO-SPINAL MEMBRANES.-Jacob Eichinger, a soldier in the 4th Light Infantry Regiment, had enjoyed good health during the seven years that he had been in the service. On the 17th of November, 1839 lie was suddenly attacked with symptoms of gastric derangement, which increased on the following day, and compelled him to go to bed at about a quarter to twelve, a.m. He fell asleep, and awoke in an hour delirions. Convulsions soon supervened; the man became comatose, and, although the most active antiphlogistic treatment was had recourse to be died on the following day, November 19th, at half-past four in the morning. The body was examined on the 20th. The eranial bones were remarkably thin and the right side of the skull somewhat promineut. The whole of the superior surface of the cerebral hemispheres was covered with a layer of yellow fluid pus, and appeared somewhat flattened; ro trace of the arachnoid could be found at this part. The pia mater was highly congested, and infiltrated with ons in its prolongations between the convolutions; the substance of the hemispheres was very much softened, and contained numerous points of blood when out through; the lateral ventrieles empty, and their walls softened in the highest degree; the pineal gland was very much enlarged, and did not contain any calcareous matter. The inferior surface of the cerebrum, and the whole of the cerebellum, were covered with pus, and extremely soft; the arachnoid here also appeared to have been destroyed; the base of the cranium was bathed in pus; no fluid in the third or fourth ventricles; the pineal gland much injected. The inner surface of the trachea was of a light red colour, but the bronchi were healthy. There

[•] According to Mr. J. R. Cormack (Treatise on Creosote, 1836), the only essential part of the munnmifying process practised by the Egyptians was the application of such a heat as would dry up the hody, and then decompose the tanny matters which had been previously introduced, and thus generate creosote.—Percira, Mat. Med., Part 1, p. 227.

were some adhesions between the pleurae, and the substance of the lungs was much congested, a few tubercles in the upper part of the left lung. The heart was very large, soft, and loaded with fat, but not diseased. In the abdominal cavity nothing worthy of notice was found. The bladder contained about half a pint of turbid urine. The fibrous membrane of the spinal marrow was much injected, and the cellular membrane particularly so; its whole surface, and especially opposite the canda equina, was bathed in the same kind of purulent matter as the brain; there was no trace of the serons membrane, and the substance of the spinal marrow itself was converted into a thin, pultaceous matter.-This remarkable care is unique in the annals of medical science. Pathologists must decide whether the inflammation commenced in the arachnoid membrane, or extended to it from the softened nervous tissne, or whether both states were simultaneously produced by one and the same cause. But, however this may be, we cannot but be struck with surprise that such extensive softening of the cerebro-spinal nervous mass, and universal suppuration of its scrous membrane, should have existed without the production of any symptoms to indicate such extensive disease. Particular inquiries were made in the regiment in which the man had served, and it was ascertained that during the seven previous years he had enjoyed excellent health, having continued to do his duty as a soldier without interruption. It was only two days before his decease, that gastric and convulsive symptoms made their appearance, and quickly terminated in coma and death.

THE TAILCOTIAN OPERATION NOVELLY APPLIED —Miss A. T., at the age of five, was severely lumit. The result was an exceeding degree of deformity. The lady in describing her condition, says, "I have been unable to throw my head to my left side, or backwards, or to close my month for more than a few seeonds at a time for twenty-three years. My right eye was drawn down some distance below the other, and when I endeavoured to turn my head it was entirely closed," Mutter, of Philadelphia, on examination, found in addition, the angles of the lower jaws altered and the incisor teeth nearly horizontal (as is seen in cases of chronic hypertrophy of the tongue) by the pressure of the tongue, which organ, in consequence of the inability of the patient to close the month, was always visible, and indeed, protruded when she was silent. The clavicle of the right side was so completely imbedded in the cicatrix, that it could scarcely be felt, and there was not any external indication of its location. The chin, from the shortness of the band, was drawn down to within one inch and a half of the top of the sternum, and the head consequently inclined very much. The space between the chin and sternum was filled up by the cieatrix, so that no depression existed in front of her neck. The ordinary operations in such a case not offering any chance of success, Dr. Mütter decided on practising a novel application of the process of Talicotius, which he accordingly executed on the 12th. January, 1841, assisted by Drs. Noble and Pierce. The steps of the operation were as follows; the patient being placed in a strong light, and seated on a low chair, her head was thrown back as far as possible, and sustained in this position by an assistant. The operator then, seating himself in front, began by making an incision which commenced on the outside of the cleatrix in the sound skin, and passed across the throat into sound skin on the opposite side; this penetrated merely through the integuments,

as possible. It was, therefore, about three quarters of an inch above the top of the sternum and of course in the most vital part of the neck. The object in making it so low was to get at the attachments of the sterno-cleido-mastoid muscles, which, in consequence of the long tlexion of the head, were not more than three inches in length, and required on one side complete, and on the other partial, division before the head could be raised. The integuments having been thus divided, the cicatrix was next carefully dissected through, until the fascia superficialis colli was reached, and then the right sterno cleido-mastoid was exposed, and both its attachments divided on the director. The head could then be raised an inch or two, and when the sternal attachment of the left sterno-cleido-mastoid was divided, the head could at once be placed in its proper position, the clavicular attachment of the muscle offering little or no resistance. A wound, six inches in length by tive and a half in width, was thus made, and yet there was scarcely any hæmorrhage, only three or four vessels requiring ligature. To fill up this immense chasm, an oval flap, six inches and a half in length by six in width, was dissected from the left shoulder, its attachment to the upper part of the neck being left intact. This dissection was painful, but not bloody, only one small vessel being opened. The flap, thus detached, was next brought round by making a half turn on its pedicle, placed in the gap it was destined to till, and carefully attached by several twisted sutures to the edges of the wound. It was also supported by strips of plaster. The edges of the wound on the shoulder from which the flap had been removed, were next brought together by straps and sutures, and with the exception of its upper third, carefully covered in. A pledget of lint, moistened with warm water, was next laid upon this raw surface, a bandage applied by which the head was carried backwards and maintained in this position, and the patient put to bed. This very severe operation was borne with the greatest fortitude. Very little disturbance followed; no unfavourable symptom made its appearance, and union by the first intention took place throughout the entire wound, with the exception of one small point which united by granulation. The wound in the shoulder, except just over the acromion process, also healed kindly and the patient has been relieved of nearly all inconvenience. The angles of the lower jaw have, in consequence of the change in the condition of the throat, regained in a great measure their proper shape, and the lower incisor teeth have been straightened and one of them extracted by a dentist To support the neck after the incision had healed, the patient wore a stiff stock for a while by Dr. Mutter's directions, and this instrument served to press the integuments back, by which the natural excavation or depth of the neck in front was readily effected. the head are perfect.

MALIGNANT DISEASES OF THE SKIN.— Dr. Byron, of the Meath Infirmary, gives a detail of his experience in the use of the chlorate of zinc as an escharotic. His paper refers chiefly to the treatment of lupus exodens, affecting the nose, eyelids and check. In the tirst case, that of a man, forty years of age, the lupus commenced about six years previously, and at the time of his admission, there was a superficial ulcer not apparently deeper than the cutis vera, occupying upwards of two thirds of the right under eyelid, extending from near the outer commissure along the tarsal horder, which, with the cilia, was removed to the extent mentioned, leaving the globe of the eye and its conjunctiva exposed; the latter was thickened

the ulcer was irregular, not materially thickened nor everted, but excavated, presenting much the appearance of herpes rodens, and its surface pencilled over with a thin pale gelatinous matter, which, though soft, was not easily removed. There was a painful sense of heat and itchiness in the ulcer, which, however, seldom amounted to absolute pain, but he suffered at times from pain in the head of a lancinating nature. His general appearance was indicative of disorder, and his spirits were depressed, but there were not any appreciable indications of physical disease, or functional disturbance. The entire surface of the sore was touched with the chlorate of zine, by which the sensations of heat, pain, &c., were in a great degree removed. The pain of the application was excessive, and the heat and redness caused by it continued for two days. When the inflammatory symptoms had subsided, the application was renewed, but only to the margins and foul parts of the ulcer, by which it was much cleaned, and healthy florid granulations induced. The chlorate was applied every third day to those parts only which presented a foul or unhealthy appearance, and never until the heat and redness consequent upon the preceding application had gone off, and at the end of a month cicatrisation was completed. The chlorate of zine was used ten times. The rapidity with which the aspect of these ulcerations is improved under the use of the elilorate of zine is, Dr. Byron considers, at once a proof of the efficacy of the remedy, and also the local character of the effection up to a certain period. What that period is, when all known remedies prove useless, remains to be ascertained. He uses the chlorate in the solid form, although it has hitherto been advised to be applied either in solution or in the form of a paste made with lime, flour, or some such substance, because-1st, it is at once, and in the full enjoyment of its escharotic powers, brought in immediate contact with the diseased surface; 2d, its reapplication is regulated by existing circumstances; and 3d, no parts are subjected to its use but those which seem to require it. Some precaution is necessary in the application of this powerful escharotic to the skin of the head and face in young subjects; for them it should be diluted by the admixture of from three to ten parts of water, and the pain, redness, &c., consequent on one application, should always be allowed to subside before it is reapplied, else a slough of the part will probably follow. The same precantion is not necessary to the same extent with persons advanced in life. The following are the inferences drawn from the cases detailed in Dr. Byron's communication. - 1st. Malignant ulcer of the cyclid is, in its earlier stages, up to a period not yet defined, local, and admits of cure by local treatment only. 2nd. It is usually a disease of advanced life, but is not confined to any temperament or condition of life. The motions of 3rd. This malady is rarely found combined or coexistent with other affections; on the contrary, its presence seems to exempt from any such liability. The sympathetic affection of the stomach, bowels, bronchi, already referred to, forms an exception to this rule. 4th Lupus, on the contrary, seems in most instances to have a constitutional origin, being as already shown, found to follow from or coexist with other affections or disordered conditions of the system, moreover, it is most effectually eliceked by constitutional, combined with local treatment. 5th. The difference, through well marked in several instances, between these two affections is infinitely less apparent than between either of them and cancer. 6th. The term " malignant" may be fairly questioned, as being applicable to the earlier stages of ulcers of the and was made as near the centre of the cicatrix and drawn inwards, and the inferior margin of eyelids; but it is absurd and inappropriate in the great majority, at least, of cases of lupus.

COMPONENTS OF THE BLOOD .- The blood contains twelve at least of the simple or undecompounded elements of matter, the oxygen, hydrogen, earhon, azote, sulphur, and phosphorus, being component parts of animal and vegetable fibrin, allmmen and cascin, are furnished for instance by meat, bread, eggs, milk, some vegetable juices, and hones,— Sodium and chlorine is derived from culinary salt,-also from eggs and water, most vegetable substances, as the carealea, potatoes, ginger, asparagns, milk, &c.; calcium from water, salt, and many animal and vegetable substances; potassium from milk, fish, and rice; and magnesium from salt, wheat-flour, barleymeal, &c.; silica and manganese which occur in some of the tissues, are introduced into the system with water, the ciercalea, and even cucumbers. The only apparent exception is in the case of fluorine, which, according to Berzelius and other chemists, is a component part of the teeth. As an illustration, says Mr. Ancell, let us suppose a child to be fed for six months upon breast-milk alone; we know that iron is absolutely essential for the formation of blood. If the blood have not due proportion of that mineral, healthy nutrition and acration cannot proceed; the only known source of iron in this instance is the mother's milk, and and according to Pfaff's clever analysis, it contains only a .007th part of the phospate, which, on a cursory view, would appear to be an inadequate quantity. But allowing 12 ounces of milk upon an average as the daily diet, a little more than 10 grains of phospliate of iron would be received into the alimentary canal with the food in six months. This is equivalent to about 5.8 grains of oxide of iron, which, again, is equivalent to about 4½ lbs. of blood. Suppose the child to increase I lbs in weight during the six months, and that a pound of this additional weight consists of a permanent increase of the quantity of blood in the system; for the formation of this one pound of blood not more than 1.2 grains of the oxide of iron is required; the remaining 16 grains contained in the milk may be deposited in the structures, or eliminated in the secretions or exerctions, - Iron being one of the most permanent and settled constituents of the blood, employed only in the most minute quantities in the nutrition of any of the tissues, and it being doubtful, whether it leaves the body at all after it forms a part of the blood; it appears to be clearly demonstrated that the quantity above indicated as a constituent of luman milk is abundantly sufficient to answer all the purposes of the economy at this period of life .-But let us suppose that from any cause whatever the milk of a particular individual contained a much smaller proportion of iron than here represented -- nay 1-10th part of this proportion. In such a case, the child would receive from its mother harely enough iron in six months to form 71 ounces of perfect blood, allowing nothing for waste, or for any portion of the metal which might be employed in the building up of the tissues; it is impossible to conceive that so small a proportion of iron would be consistent with health and progressive growth. Can it be said that the mother's milk is never deficient in its proportion of iron; of potassium; of phosphorus or other elements? Have diseases been referred to their proper causes, and have the most probable causes been yet investigated?

Pus AND Mucus,—The mode of distinguishing pus from mucus, says Dr. J. Griffiths, has occupied the attention of 30 many authors,

consideration, that any further observations at first sight appear unnecessary. In diseases of the chest, now that the physical examination of that eavity by anscultation and percussion renders us so certain of the disease within, assistance is rarely sought for from either the presence or absence of mucus or pus in the expectorated matter. My object here is to notice one or two of the proposed methods of distinguishing one from the other, and to attempt to show the true relation of pus to mneus. Pus when pure is composed of two kinds of globales floating or suspended in a liquid containing free albumen. The first of these globules are granular on the surface, and much larger than the second, and when acted upon by acetic acid the external part is dissolved, leaving nuclei, varying in unmber, undissolved; the smaller globules are smooth and transparent, and unaltered by acctic acid. Mucus is composed, as described by Mandl, of globules undistinguishable from pus, irregularly diffused through a viscid tenacious mass which appears itself composed of numerous very minute granules aggregated into amorphons masses, mixed with some very transparent small globules. The larger globules of nineus se in to me undonbtedly to vary in size according to the density of the medium in which they are contained; thus in the ordinary fluid mneus of the nose they are smaller and appear more granulated, whilst in the urine they are generally larger and less granulated, and of a paler colour, seeming as if distended with fluid. Mixed with the various globules in muchs we have abundance of epithelial scales and cells. The viscidity and tenacity of muons, varying in intensity from the saline watery mucus secreted in acute broachitis to the almost solid masses sometimes secreted in the latter stages of phthisis and calenlous disease of the bladder, is very characteristic, and is worthy (in a diagnostic point of view) of much more attention than it ordinarily receives. It is never found in pus. The fluid part of mucus does not contain free albumen, but it exists in some unknown combination; its presence has been proved by electricity. That variety of morbid proved by electricity. secretion termed muco-pus is composed of a large number of jois globules suspended in a mucous fluid; there is no true pus secreted in these cases, i. e. globules and an albuminous vehicle, but the geomine pus globules in the true mucus. The iron, whose presence in pus has been considered as characteristic, exists in the fluid of pus, not in the globules; therefore, it is not present in muco pus. I have often been surprised, in examining the expetorated "purnlent" matter in the last stage of phthisis, where there is an enormous progressing ulcerating surface, and when we should expect a large quantity of true pus to be secreted, at not finding more than a trace of free albumen; although the pus globules were abundant. I believe that Gueterbock is perfectly correct in stating that free albumen is not secreted by mucous surfaces except they be ulcerated; therefore, that pus is not secreted unless under the same circumstances. Pus, when contained in urine, falls to the bottom, and forms a bran-like-layer, which by stirring is readily diffused throughout the liquid, again subsiding by repose; the urine under these circumstances becomes albuminous,-Wherefore, when this sediment is examined by the microscope, the globules are found in great abundance. Mucus by repose falls also to the bottom of the vessel, but by stirring cannot be diffused through the urine like pus, but retains its peculiar viscid gelatinous appearance. When this sediment is examined by the micro-

and so many pages have been devoted to its consideration, that any further observations at first sight appear unnecessary. In diseases of the chest, now that the physical examination of that cavity by anscultation and percussion renders us so certain of the disease within, assistance is rarely sought for from either the presence or absence of mucus or pus in the expectorated matter. My object here is to notice one or two of the proposed methods of distinguishing one from the other, and to attempt to show the true relation of pus to attempt to show the true relation of pus to authors, would also be equally fallacious.

ELECTS OF REMEDIES ON THE GENERAL ORGANS .- Cases have been recently published, tending to show that the local use of tartaremetic or croton oil as counter-irritants man produce a curious effect on the genital organs. Dr. Boas has observed an analogous effect produce by assafuetida plaster, which he is much in the habit of employing. In men, tumefaction of the scrotum often occurred; in women, tumefaction and even inflammation of the external labia. In one case, that of a woman fifty years of age, where the plaster had been applied on the abdomen, very troublesome inflammation of the external organs of generation, requiring an antiphlogistic treatment, supervened, and the mammabecame greatly enlarged, and furnished a milky secretion in considerable quantity.

NOVEL CURE OF HYDROCELE WITHOUT OPERATION,

By J. N. ASHWOOD, Surgeon, North Molton.

I was attending Mr. E. B., act. 48, for a febrile attack from getting wet and remaining some time in his wet clothes. He was nearly recovered, but yet in bed, when he mentioned to me a hydrocele which commenced nearly two years before, in consequence, as he said, of a slight blow on the left testis, received in descending from the top of a stage coach, and which, till then, he had concealed from motives of false delicacy. He then only mentioned it as it had, from its size and weight, become troublesome; he complained of some pain in the spermatic cord, and a little soreness and redness of the integuments of the scrotum. I examined it earefully, and found it to be a true hydrocele about eight inches in circumference, and without any apparent disease of the testes. I ordered an evaporating lotion, containing a fourth part of sp. vin rect.; this relieved the pain and soreness in two or three days. One morning, on visiting him, he complained of much painful smarting and sorcness of the scrotum; on examination 1 found the whole surface of its integuments much inflamed and covered with small blisters, as though a blister had been applied and taken off before it had produced its full effects; but, to my surprise and the delight of the patient, the hydrocele was manifestly, and upon its being measured, considerably lessened. I then examined the lotion, which I found, through an error of my assistant, to be entirely rectified spirit. The lotion was at first applied when in bed by means of a single fold of linen, but he had the day before got up and dressed, and used it, being dressed, with several folds of linen,-so that evaporation could not take place, and inflammation was the consequence. I continued the application in its accidental form for a day or two, when he could bear its application no longer; the serotum was then covered with strips of linen spread with cerat. ectae, until it was healed. fluid became absorbed in eight or ten days The disease has never returned. I had fully determined to operate.

Not long after this I was consulted by a gentlemen about the same age as the former, for the same disease, to whom I proposed the operation; he, however, resolutely refused to submit to any operation. I then mentioned and explained the above case to him, but without holding out to him any confident hope of cure from the treatment; he consented to its employment. It was completely successful, but not in so short a time as the former, as the external inflammation was not so violent.

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THE MEDICAL TIMES

A Journal of English and Foreign Medicine and Medical Affairs

No. 170. Vol. VII.

LONDON, SATURDAY, DECEMBER 24, 1842.

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ST. THOMAS'S HOSPITAL.

IMPORTANT CASE OF MOLLITIES OSSIUM.

On Friday evening, Dec. 16th, a conversazione was held at St. Thomas's Hospital, when Mr. Samuel Solly communicated the details of a remarkable case of mollities ossium, which he illustrated by some drawings and microscopic preparations. Dr. Hodgkin also communicated some original observations regarding the extent and relative position of the thoracie and abdominal viscera in health and disease; the details of which had been communicated to him by Mr. Francis Sibson.

The assembly took place in the large half of the hospital, which was brilliantly lighted up for the occasion, and there were present not less, we should think, than five hundred

Mr. Samuel Solly, in opening the proceedings, said: Gentlemen, in appearing before you this evening I confess I feel some difficulty in having to address two classes of auditors; for, in addition to the presence of many of the most eminent members of the medical profession, we are favoured with the company of many of those whom it is an honour to see among us, and whom I am proud to see gracing assemblies of this kind with their presence, because it shows that they take an interest in the scientific cultivation of medicine and surgery; not merely, of course, in this school, but all over the world. We know that learned societies flourish not merely by the influence and talent of its superintending members, but by the combination of science with wealth; and we hope, therefore, that the combination of wealthy members in institutions of this kind for the propagation of medical science throughout the globe, -for we know that institutions of this kind are mostly supported by the wealthy part of the community, -I say, I hope therefore, that those who are not practicing the profession will come among us and take an interest in our pursuits and our objects, and will feel the delight that we feel in doing all that may be necessary to communicate all the good that is within our means of bestowment. I say, it is in consequence of my having to address two classes of auditors that I feel some difficulty as to the manner in which I shall address you. If I do not explain myself in language more becoming the theatre of a medical school, and, instead, make use of what may appear trite terms, you must excuse me, inasmuch as I am not addressing simply a medical audience.

best proofs of a designing and benevolent Providence, and the bones of which it is composed are so hard and so firm, that the medical student when he commences his profession hardly looks on it as a part of the living being, and those who have not studied physiology, and know nothing of the science, cannot comprehend that the bones are endowed with anything like a living principle; but those who have studied physiology and the laws of the animal economy, know that they are as much under the influence of vitality as the soft skin that protects them by its sensibility, and which moves so beautifully to every motion of the body. The vital properties of the bones exhibit to the surgeon many wonderful characteristies; he sees that they are under the influences of disease, and also that they are as much endowed with sensibility as the nerves, and the muscles and the other tissues of the body. Many diseases affect them. Scrofula holds not its power from them; the poison which invades the museular, and especially the pulmonary tissues, also extends itself to the bones. When the bone dies, and is no longer a means of support, nature builds a beautiful protection out of the materials left. Now the sympathetic cyst—which is itself no more than as a small globular particle-possesses the properties of an animal, is capable of reproducing its species: this deposits its seeds in the bones, and thus breaks up the osseous system.

Of all diseases that affect the osseons system, none is more extraordinary, and none more interesting, from its variety, than the molluties osvium. The term implies a mere softening of the bone from various causes. It is produced by careinomatons tubercles in the deposit, allowing it to break easily. In childhood before the calcarcous matter has been deposited, they are soft and pliable, -- so that, when the deposit takes place, you have that dreadful deformity of the person known under the title of rickets; this arises rather from the want of the deposit of calcareous matter than any positive disease. It is true that some physiologists and excellent surgeons have considered that rickets is a disease; Garand, a French physician, brought forward nine facts to establish that it is a disease. Rickets is not a disease which in itself causes the destruction of life; but it is a disease which causes rickets,-namely, the disturbance of the alimentary canal, one of the great causes of the want of a proper assimilation of the food with the blood, It will cause the death of the child; but, supposing the general system to be repaired by the assistance of a medical man, the child may grow up to be an adult, and the deformity will remain. There is a case in a French work in which every portion of the skeleton, the upper and lower extremities, the vertebral column, and the skull, were diseased in like manner; but the disease may be repaired, though the recovery from it be accompanied with deformity. As far as we know at present of the disease, regarding mollities ossium, we know that it is a disease sui generis -not dependant on any disturbance of the viscera generally; but it is a disease of the cause of which we are ignorant at present, and

ligent and thinking minds, affords one of the subjects of this kind, because we are stimulated to go on in our endeavours to find out the real canse.

The case which has induced me to come before you to night is a ease of great interest, and one for the details of which I am indebted to my kind friend Dr. Conolly, and Dr. Davey, of Hanwell Lunatic Asylum, Mr. Dutton, of York-street, Manchester-square, Mr. Temple, and others. I only saw the patient after death. I was present at the post mortem examination, at which I assisted, and I made some sections of the bone, made some drawings, and I have followed out the case since and got the particulars. The poor creature, as she laid on a table after death, was so distorted as hardly to present the appearance of a human being.

I'We give the report of the case kindly sent to us by Dr. J. G. Davey, of Hanwell Asylum. as being ampler and more precise than that suited to the general audience addressed by Mr. Solly.—Ep.]

C. S. a female, æt. 33, was admitted into this institution in April last. She was much emaciated and enfeebled, and unable, either to walk, or even support herself erect. When not in the recumbent position, the sat on her haunches, supporting herself by her superior extremities, of which she retained a very efficient use. The general deformity of the skeleton, induced me to regard the ease as one of protracted rickets. The bodily health appeared good, the several functions being duly performed; there were no hectic symptoms, or cough, or tumidity of the abdomen, which constitute the ordinary accompaniments of discuse of this kind. The history obtained by me from her mother, a very intelligent woman, some months after her admission, is to the effect that in 1837, whilst walking along King William-street, City, she fell, and received a heavy blow on the right knee. The accident confined her to her hed for a period of four months. Before the occurrence of this circumstance she had enjoyed excellent health, but subsequently to it she became very delicate. Her conduct too was characterized by supicion, and so restless and irritable was her general demeanour, that her friends and relations feared the approach of insanity. All this time, however, she continued to conduct her school, with her habitual precision and care. Her suspicion and timidity at length so much increased that she could hardly be induced to move from room to room. On one occasion, when under the influence of these feelings, she secreted herself in some damp place or other, and thus was attacked (so her mother has assured me) with a severe rheumatic fever, which lasted for six weeks. During the progress of this disease, she made very especial complaint of strange sensations, and occasionally severe pains over the whole head, but more particularly the back part. The cerebral functions too were much disturbed throughout; so soon as symptoms of approaching recovery were manifested, violent mania set in, during which she succeeded in inflicting a wound in her throat. After a time the symptoms of insanity moderated, and for the space of fourteen months succeeding the attack, she remained very improperly at home with her family; sometimes better, at other times worse. She was now removed to St. Luke's Hospital, and in a short time was very much better. Her health was generally restored. that of the brain as well as the other organs. She became robust. Unfortunately, however, this amendment proved but a too flattering hope of a permanent cure. An attack of epilepsy or hysteria—so it would appear from report—to which The skeleton, it must be known to all intel- it is much better to confess our ignorance on I am informed a loss of power of the lower extremities quickly succeeded, proved the preenrsor of her dissolution. The return of the catamenia which had attended on her improved health, now became suspended. The eyes were observed to grow, as it were from their sockets, and the whole head to increase in size. She was received here from the Islington Infirmary. After admission into the Hanwell Asylum, the deformity of the skeleton abovementioned, (and which was on the whole, of the ordinary character of "rickets") went on increasing. The head became larger, the dorsal spine more curved, the stermin more prominent, the lateral parietes of the chest more flattened, the extremities more bent and hoisted, and the articulations more expanded, continued those of the phalanges). The appetite continued very good, and the secretions healthy. With the exception of sedative medicines to relieve the severe pains she referred to her bones, she took only a single aperient pill since my knowledge of her. I may add, two grains of morphia (muriate) or a drachm of the sedative liquor of opinm produced but slight narcotic effects, such was the soverity of her sufferings. The treatment in addition to opiates to relieve pain and procure sleep, consisted in the daily administration of wine, with a generous diet, together with the use of an air bed. Softly padded and small cushions too were recommended by Dr. Conolly with much relief. They were placed in any position likely to relieve particular pressure of parts. She gradually sank, and died on the 28th of October of the present year. I had almost forgotten to state that two or three weeks before her decease, the existence of spontaneous fractures was accidentally discovered.

Autopsy.-The examination detected as many as six spontaneous fractures; viz., two of the left femur, one of the right femur, one of the left claviele, (nature had made some ineffectual attempts a re-union in this instance) one of the left lumerns, and another of the right radins. The viscera of the thorax, abdomen, and pelvis, were quite healths, not a vestige of discase could either be discovered in the brain or membranes. The petrous portion of the temporal bone, on the left side was slightly onlarged. The medulary count of the long bones one and all, contained a substance, which both in colour and consistence resembled black current jelly. The cancellous substance of all the assemsystem with the exception to be specified, was apparently converted into this peculiar morbid product, or, at any rate, the one look the place of the other. The same change was evidently in progress with the outer, or compact structure of the hones. The articulating extremities of the long bones, as the tibia, femur, lumerus and those of the fore-urm, were excessively vascular and very much softened; so much so, as to retain very perfeetly, even an inconsiderable pressure of the fin-A section of the upper part of the lemur. including the head of the hone, presented an appearance differing only to that which is natural to it, in the greater number and larger size of the cellular spaces, and from which it may be presumed the phosphate of lime &c., had been removed by ab orption. A very similar appearance, somewhat modified, was presented by a section of the calvareum which was of innacuse thickness, measuring in several places seventeen lines in diameter (English). It could be easily out through with a knife. By exposia, the shafe of either the femur or lumerus, and embracing it between the tinger and thumb, the compact sub-tance on ily yielded to the pressure, so very thin was it, and imparted the sensation of breaking a soft helled

My friend, Mr. Solly, of St. Thomas': He piral, who happened to be present, intends, I believe, to furnish the profession with the result of an analy is both chemical and microscopical of the peculiar substance abovementioned.

Remarks.-Even supposing that pathologists were agreed respecting the precise nature of disease, of the kind I have narrated; nevertheless, I should consider that the unfrequency of such cases as that of C. S., would excuse the publication of the present one. In the note, Mr. Editor, which

I have designated the case one of mollities assium. any one of your numerous and talented correspendents in what consists the difference, not nominul but virtual, between rachitis, fragilitas onsium, and mollities ossium. Are they not I would enquire, mere words, signifying but varieties of the same disease? I may be told, that the first is confined to childhood. That such is the generally without authority to show that such an opinion is ill founded." Mr. Cooper in his surgical dictionary. quotes a case by Morand Acad, des Sciences, 1753) "in which an abult became affected" with this disease. And we learn too from the same author) that the late Mr. Wilson was agreed with Boyer and Richerand in believing rickets and mollities ossium to be "one and the same." The interesting case of "millities assium" recorded by the late Mr. Gooch, and given in the article of that name in Mr. Cooper's surgical dietionary was preceeded by a remarkable fragility of the hones. A circumstance, which, when taken in connexion with the fact that "in almost all the cases on record, the fragilitas and mollitics have been combined," leaves little room to doubt their identity. In the case of C. S. nothing could be more striking than this combination. The shaft of the long bones were in a state of fragility, the articulating extremities of the same bones being softened; I am strongly disposed to think that independently of may chemied changes so to speak in the osseous system, whereby the relative proportion of earthy and animal matter is lost, giving rise to an excess of one or other of the essential elements of hone and constituting thereby either a pure softening of its texture, in which it becomes completely TLEXIBLE. and loses all its natural firmness, the effect oxix of a deficiency of lime, and without other mortial che was or an increased hardness, or brittleness, the more consequence, as allowe explained, of the loss of bilance of the organized and calcideous structures, in which the latter prependerates, as is seen in old persons, and wherely they are rendered more limble to fractine, cales which are a ther arganic change than that now detailed. I say, that in lependently of such changes, and which, perhaps, we do well to recognize by the which perhaps, we no went to recognize by the general and certainly more expressive terms of mellities and fregilius ossium; I believe there is a peculiar and specific disease of hone, the real nature of which is at present misunderstood, and that it is the contract of which in its accession, progress, and termin tion, presents certain , " Seal characters, from which done all one ideas of it have been conceived, and hence the employment of the terms in use; and such a discuse it will be readily seen, I presum is realised, in the case which I have reported. recur, however, to the me to a -if such it be -of rickets, fragilitas, and mollities ossium, I would beg leave to dray the attention of the read r to the appearances observed after dech. In Mr. Goodh's case before-mentioned, it was observed. that "all the lones, except the teeth, were softened, so that searcely any of them could resist the knife; but those of the lower extenitioner me t dissolved, being changed into a km t d p n of process between like a Hillart - I red liver, with at ze /, so completely, indeed, were they decompaced, that the build met with less resistance in cutting through them, then in sound muscular theb, though some bony brains were here and there to be met with, but as 150 us no The most compact leaes, and those which contained the oreatest quantity of marrow sere the most disolved; and it was observable, that the dissolution began internally; for the bony lamit,

"The softenine, of the bones, which is mot with in person of adult or edvanced age, presents itself in various degrees of courity. Sometimes which has coming d with numerous che he and interruption, and ance sive revivals and increase of symptom, and to a honoral life," -Comin.

The same writer mentions too a case of the Miprefaces the observations I have submitted to you. This essent fin a child four years old.

remained here and there on the outside, and noyou will, however, perceive that I have affixed a where else." Boyer gives the following descrip-query to the term. I should be glad to learn of tion of ricketty hones.* They are lighter than natural, and of a red or brown colour. They are penetrated by many enlarged blood vessels, being orous, and, as it were, spongy, soft, and compressible. They are moistened by a sames, which may be pressed out of their texture, as out of a sponge, or rather a macerated hide after it has been tanned." No description more correct could be given received opinion is most true. Yet are we not of the appearances presented by a section of the " The walls of the medullary skull in C. S.'s case. cylinder of the great hones of the extremities are very this, Asie the bones of the skull are considerably ineren ed in thickness, and become spongn and reticular. All the affected bones, especially the long ones acquire a remarkable suppleness, but if they are local loyand a certain point they break, &c. Instead of being filled with medulla, the medullary cavity of the long bones contains only a reddish scrum, totally devoid of the fat, oily nature of the other secretion in the natural state," These words of Boyer apply with great force to C.S. In her case, if the long bones were "bent beyond a certain point" they broke. I tried the experiment. Mr. Stanley has found the interior of rickety bones. occupied with " a brownish gelationus substance. If in ricketts the bones retain their natural IN-FILVIBILITY, which they do not in mollities ossiam, but may be at once bent in any direction, then was the ease of C. S. net of this kind, but rather one of "Rochitis." The pathological rather one of "Rachitis." The pathological respectively, if contrasted, will go far to shew that these authorities have here described the same disease, with different names only. Dr. Cumin says, "A, the disease (rickets) proceeds, the bones are readily fractored whenever a slight force is applied, and it is remarked that, softened as they are, they usually resunite; at length they become completely suppliant.

It is usual to regard rheumatism as a cause of mollities ossium; undoubted cases of this disease are, however, on record, in which no such cause appears. The severe pains which mark the accession and progress of this very peculiar morbid action in the bones, it is very likely are often erroneously considered as rheumatic, - though, in the instance above recorded, it appears probable that C. S. did suffer a severe attack of rheumatism, inasmuch, as for a long period subsequent to that which is mentioned as such, she was without pain, &c.; and, before this, I could learn of no particulars to enable me to trace the origin of the

disease to so early a periol.

I shall now, said Mr. Solly, continuing his observations, refer to a few other extraordinary eases. M. Jupè was born in 1817. Her case bore great resemblance in the general details to the case I have related to you; but she lived longer under the influence of the softening of the bones, and, therefore, there was a distortion of the limbs. Her posterior extremities were actually drawn over her head, and her atms were bent and twisted, as you would twist a simple piece of string. The case of a male individual came under the care of Mr. Thompson, of the London Hospital; this individual lived to the age of thirty-three. A case also occurred in 1776, and many other cases are recorded; but the case most detailed is that recorded by Mr. Howship, and another is detailed by Mr. Curling in the medicochirurgical transactions. In the case related by Mr. Howship the disease lasted six years. during which time the patient had the benefit of the sea air; and Mr. Howship says, "I feel convinced, had the patient remained eighteen months at the sea side, she would have re-turned home perfectly cured." About twenty

The late Dr. Cumin in the the article " mollities tssium," [Cyclop, of Practical Med.,] describes the appearances on inspection after death, in this diseas, as precisely similar to those regarded by Boyer, as characteristic of Rachitis.

cases are on record, and it is curious that in all these eases the post mortem appearances present an extraordinary resemblance one to another; the larger hones contained a thick red liver-coloured matter, except in cases where the individual's life was ent short by a violent attack of bronchitis, then the bones contained matter of a jelatinous character and a pale brown colour. This is very interesting, as the patients' lives were cut short in the early stage of the disease. All these cases were accompanied more or less with rheumatic pains, and in the early stages with more or less of a deposit in the urine of a cretaceous character; as the disease advanced, and the bones became softened, then the nrine became clear. With regard to the probable causes of the disease, I confess, at present, we really are as much in the dark about them as we ever were; rheumatism has been referred to as the cause. There are pains which naturally attend such a disorganization as is oceasioned by this disease, and these pains have been regarded in the light of an acute rheumatic attack, rather than that rheumatism has preceded the invasion of the disease. For instance, in the case I have just related, the unfortunate individual at the age of eighteen, fell down and fractured her collar-bone, but it was not until after that, that she had an acute attack of rheumatism; therefore, there must have been some other cause of disease existing before, and the rheumatism afterwards. The disease I have been describing spares neither sex nor age. It is not limited to the female, though there are some curious cases of the softening of the pelvis, and in these cases, the softening is limited to the bones of the pelvis, and not extending further; but we find it occuring also in the male subject. It does not occur merely in infancy as rickets,nor is it limited to children; but it affects adults. The case related by Mr. Curling occurred at the age of seventy one, and there is a preparation of this disease in the Anatomical Museum, taken from a woman at the age of eighty. With regard to the appearance of the viscera generally, they are healthy; sometimes the liver is found enlarged, but the lungs and the alimentary canal are found in a perfect state of health. Some writers have set it down as an established fact that it is the result of gont. There appears some connection between this disease and scurvy, for in many cases the gums have separated from the teeth. I hope any one who has an opportunity of examining cases of this kind will take care to examine, so as to be able to detect any alteration of the causes of senryy and purpurea. Mr. Curling thinks it is merely a case of atrophy of the bones, and not a peculiar disease, that the matter in the canals of the bones is mere'y the fatty matter of the hones stained with blood. This disease is not limited to the human being, but it has been found in animals. Mr. Spooner, of the Veterinary College, informed me limself that he had sent to him several hounds from the kennel of Lord Milton; of these, first one dog was attacked, and then the whole progeny; it went through one portion of the kennel to the other. Now in this state of doubt and dilemma I began to think at one time that we had found something like an explanation of the cause; for sections of the bones of this individual were placed under the microscope by an exceedingly intelligent gentleman, who has had great experience in the use of that instrument, and he found, on examining portions of the hones, since particles of matter, which he believed to be worms. These were examined earefully, and they were

the matter very earefully, and I repeated the examination of those bones with some men who are in the habit of looking through the microscope, and I found that the supposed worms were little filaments separated from the bones, and the conclusion we came to was, that, they were not worms, but extraneous matter forced into the sections by the cutting knife, because the cleaner we cut the sections there was less appearance of worms, and at last, by the greatest care, not a portion of the supposed worms could be seen in the section. We made twenty sections, one after the other, most carefully, and not a single worm nor animal could be distinguished. The fact is a curious and interesting one, in connection with the study of the microscope. You should at all times be very eareful in all microscopic observations. I liave now completed all that I have to communicate on this interesting case. trust you will excuse me if I have been rather brief, and take the will for the deed.

Dr. Hodgkin then communicated to the meeting a very interesting paper on some peculiarities of the thoraic and abdominal visceva, which we shall give next week.

PRIVATE COURSE OF OPERATIVE SURGERY,

By J. NOTFINGHAM, $E_{\rm crit}$ Members of the Revolutions of Surgeon of Lundon.

LECTURE VI.

With now proceed to treat of the means employed by surgeons for closing divided arteries, and in the next place to speak of the precautions to be observed for preventing hemorrhage from wounds after the latter are closed.

Where 'small activial branches alone are cut across as in the wounds of the superficial parts of the body, they may often be left to themselves with impunity, for the divided twigs of artery cease to bleed, as soon as they have become a little retracted, and the immediate effect of the stimulus which a cutting instrument may have produced, has abated in the affected part.

Sometimes, however, a bleeding from small arterial branches of this kind has continued longer than we desire or approve of. If the mouths of such vessels can be seen, they may be seized with a tenaculum or dissecting forceps, and then seemed by ligature in the ordinary way; if not, the part whence the arterial blood issues may be seized with forceps broader at the point, and a torsion effected of all that is thus laid hold of; in this way the bleeding may generally be arrested. Sometimes the mere squeezing of the parts with the fingers is sufficient to answer the purpose, or the forceps may be employed in the same way. squeezing the parts, and thus breaking more or less the internal membrane of the arterial branches. without attempting any torsion of them, for the breaking or lacerating of the inner coat of the arteries helps the formation and the after tranquillity of the internal clot, by the settling of which further bleeding is prevented; or it may be requisite to apply the ligature to the artery or arteries, along with neighbouring tissues, when the vessels cannot be detected and isolated.

of these, first one dog was attacked, and then the whole progeny; it went through one portion of the kennel to the other. Now in this state of doubt and dilemma I began to think at one time that we had found something like an explanation of the cause; for sections of the bones of this individual were placed under the microscope by an exceedingly intelligent gentleman, who has had great experience in the use of that instrument, and he found, on examining portions of the bones, a me particles of matter, which he believed to be worms.

These were examined carefully, and they were supposed to be worms. I therefore examined make will be chiefly confined.

In the old-fashioned or circular amputation, there is, perhaps, less difficulty in effectually securing the arteries than in the flap operation, so often performed of late, for in the former operation, where the arteries are evenly cut across perpendienlar to their course, the end once being seized with the forceps or tenaculum, there is no difficulty with regard to the application of the ligature, nor is there, generally speaking, any fear for the complete security of the vessel so fied; not so, however, in the tlap operation—here the catlin does not cross the limb, but is slanted through it, if the expression may be allowed, the vessels are divided obliquely, and present frequently long spoon-like months on the exposed surface of the flap, the ligature must be applied with care fairly above the highest point of the section, and generally in this way the bleeding for the time is arrested. It may happen, however, that a small arterial branch arises from the trank a little above the point where the ligature is applied, which in some cases will be divided near to its origin from the main vessel, and this latter being secured below by ligature, admits afterwards of hemorrhage occurring from the unsecured twig as soon as a little reaction takes place in the system of the patient, so that the possibility of such an accident should put us on our guard, lest by overlooking a divided arrerial branch, such as we now allude to, an after bleeding should occur, always troublesome, and a source of the greatest anxiety to the surgeon, at the same time dangerous to the patient, and besides all this, frequently giving to him more pain in opening the stump (already sensitive and sore) than that which the previous operation produced.

In seizing an artery about to be tied, it may be transfixed at its divided extremity with the tenaculum, and then drawn out—or with the forceps, one point being inside its calibre, the vessel may be pulled forth by pinching one side in the forceps, or without being so particular or so artistic as this, we may be contented with the pian which most surgeous adopt, of laying hold of the end of the vessel with the point of the instrument, carring merely to isolate it completely, and at the same time to get good hold, for in this way the application of the ligature is easily made secure, as we place it for enough on the end of the vessel brought forth to prevent it slipping off afterwards, and thus all the purposes of its application are attained.

In most cases the vessel may be separated from the parts to which it more or less adheres so as to enable us to the it without including an accompanying vein or nervous filament; it may, however, sometimes be better to allow a little cellular tissue or muscular fibre to enter within the loop of the ligature, than to run any risk by an over-nicedissection of injuring the coats of the artery before the thread is applied to it.

Ligatures should be examined as to their strongth before their employment by the surgeon. Common hempen thread is no doubt the best material, its thickness must depend on the size of the vessel to be tied, for the femoral artery for example: a good ligature is that kind of shop-thread, now so commonly employed for tying small parcels, &c., and, if waxed, the making and closing of the noose is somewhat facilitated; one end of the ligature may be cut off, the other allowed to hang from the lower end of the wound. Some surgeous prefer cutting off both ends of the ligature close to the knot; others like to employ ligatures made of animal substances, thinking that after they had acted as ligatures (of course not before) they would be absorbed, and that the constitution of the part would have mercy upon them, and not treat them as foreign bodies. I may be allowed an egotistic shortening of these remarks, by saying, that if I were a patient, I would have no such refinements practised on me.

In applying the dressings, as in cases of ampution of the leg for example, it is better to adapt all the straps of plaster employed in uniting the sides of the wound, and then gathering the ends of ligature together, let them be fixed over the plaister by a separate strap of the same material, for thus left, they come at once into the view of the surgeon at the time of the first dressing, and may be treated in such a careful naumer, that their at

tached extremity will not be disturbed, as occasionally happens in cases where at the time of the first dressing they are applied to the skin, and

have the plaister stack over them.

We now come to consider whether any considetable interval of time should clapse between the application of the ligatures and the closure of the wound, or whather immediately after the securing of the blood-vessels, the sides of the wound should be brought together; and here we may call to mind the issue of two cases of operation for cancer of the breast, treated one in one of the ways mentioned, the other in the other. In the first case, I allowed the parts to remain exposed for a time after the ablation of the diseased mass, subsequently, straps of sticking-plaister were applied in the ordinary way; in this case we had no secondary hemorrhage; in the second case, the edges of the wound were approximated immediately after the removal of the tumour; there were some peculiar reasons for this practice connected with the then state of the patient, hysterical fainting, &c., making it desirable that we should put her quietly to bed as soon as possible; in this instance secondary hemorrhage followed, and without taking up more time by extending the comparison or th contrast of the cases, we may be allowed to add. that it is at least probable that the secondary has morrhage in the last case might not have occurred. had the exposure after the operation been resorted to, and the edges of the wound only brought together, when an hour or two had elapsed after the time of its performance.

The remarks on this subject on the "clinique chiraryical" of Duppytren deserve to be remembered, for he always allowed one or more hours to pass after the performance of any of the greater and cutting operations before the wound was definitively closed. His practice is spoken of in the following manner:—"The patient is put to bed immediately after the ligature of the blood-vessels, nothing being now applied save a compress, lightly supported by a few turns of a roller; the following reasons are assigned for M. Dupnytren's mention."

It frequently happens, despite all the cares of the operator to tie most precisely every vessel whence a jet of blood or cozing comes forth, of whatever calibre the vessel may be, that shortly after the operation consecutive becomering occurs. always injurious to the patient, and obliging the practitioner to remove every part of the dressings applied. In no case can we be certain beforehand that such an accident may not occur; and supposing the dressings to be applied, the bleeding might not be discovered until they had become steeped, more or less with blood; in other words, when the hamorrhage would already have produced very deleterious effects on the system of the patient. Of this occurrence M. Dupuvtren gives the following explanation: In some cases there are arteries which although not tied, do not send forth any blood; their extremities are not observed on the surface of the stump, retracted and hidden in the surrounding structures, they do not allow the e ape of any blood. In suchea es it in vain to wait for a few minute-merely, for no hemorrhage will appear; but allow one or two hours to pays, or in some in tances a much less time, and the irritation will attract the circulating fluids to the part, and secondary bleeding will show it elf. This absence of the flow of blood at the time of the operation often depends upon the deep moral impression which the idea of it has produced on the patient, or on spasmodic actions, more or less violent, from which he has suffered during its performance. Some patients there are who faint from fear, or at the sight of blood flowing over the cutting instruments; two or three hour; afterwards, recordary haemorrhage not unfrequently occurs in such cases, this being produced by the greater afflix of blood to the point, and by a dilatinion of the ve sels, which at first did not appear: or such haemorrhage may, in some in tances, be accounted for by some imperfection in the mode of applying the ligature. Since M. Dupaytreu has taken the precautions now alluded to, there ha not been a single case of secondary logmorrhage in any patient operated on by him at

the *Hotel Dien*. In the interval between the operation and the dressing, an intelligent assistant watches by the patient, provided with all that is required for the temporary suppression of any hæmorrhage that might occur.

Although the practice of M. Dupuytren be not generally adopted, and many surgeons continue to close and dress the stump in cases of amputation immediately after the blood-vessels are secured to their satisfaction, we cannot quit these considerations without expressing our admiration for the practice here recommended, calculated as it is to ward off a most disagreeable duty, which the surgeon is now and then called upon to perform; for imagine yourself sent for in the middle of the night to a patient who is said to be bleeding, who has, perhaps, had his leg amputated the day before at moon, frightened, and fainting-friends alarmed, and paralysed by their fears; the faces of the by-standers pale, their hands helpless—you find the bandages distended and soaked with blood; you undo the roller, and remove the straps of plaister, finding the stitches on the stretch, or perhaps burst open, and the flaps bulged apart by the huge clot between them, which must now be removed; the patient screaming with pain under this operation of tearing the adhering fibrin from the inner surface of the raw flaps, whose sensibility is already much beightened by the irritation which the first operation has set up; with the light, perhaps, of a few candles which only serve to make darkness visible; after tearing away (for this is the fittest expression) the coagula which clung to the hollow of the stump, you must grope with the tenaculum or forceps for the vessels where the blood is supposed to come : perhaps no arch bleeding vessels will be found, for if we may he allowed so to speak, it often appears that they have bled as much as they choose to bleed, and here is an end of the matter as far they are concerned. Groping with the tenaculum or forceps, is an expression which may be here allowed, for in reality, even had we good light we cannot see our way on these occasions, when some vestiges of congula will more or less mask the face of the stump, and hide the months of the vessels, which are seen with comparative facility soon after the knife has passed through them, or before they are concealed by bloody deposit, and all this will now and then happen, if we do not take those precantions which are recommended for the preventing of secondary hemorrhage; but all I think must be agreed respecting the horrible nature of the accident above described, and of the importance which ought to be attached to those rules of practice which will often enable us to avoid such occurrences, not less distressing to the surgeon than they are dangerous to the patient.

When the patient is removed from the operation table and placed on his bed, there is no reason why the atmospheric air should not reach the surface of the divided parts during an hour or two after the operation, and when subsequently the dressings have been applied, cold water may be employed upon and around them, more especially if we have to deal with very irritable subjects; if much excitement be likely to follow the operation, or the hamorrhagic tendency, be greater than usual, the employment of opinion digitalis or preparations of lead internally, or the application of local stepties, powders of kino or dried fungi, and other such like matters externally, if noticed in detail would carry there observation. far beyond the limit assigned to them, we shall, therefore, leave this department of our subject, and betalle ourselves to that which cems most naturally to follow it, and as we have already spoken of incisions, and of the bleeding which follows their formation, we now proceed to treat of

RULNION,

Or the clo ure of wounds after hiemorrhage, from their surface, has been arreard. In union by the first intention, the sides of the wound which the surgeon has brought together, are united more or less firmly by a process of vital agglutination, within a few hour strong the time of an infliction, the separated portions of divided skin in such cases being fitted to one another time is not required for the formation of tew entists.

In union by the second intention, a wound must fill up by granulation from the bottom and sides during this time the superficial part of the wound is observed to contract; and, lastly, the new integument of the scar going from all parts of the borders of the wounds ultimately unites itself in the middle to finish the process.

After a great number of surgical operations, we endeavour to obtain union by the first intention. After a tew, however, union by the second is sought for, the applications of either mode of union will be explained as we proceed.

In cases of wound inflieted by accident, coagula and foreign bodies must be removed and bleeding arrested, the part placed in as easy and relaxed a position as possible, occasionally lacerated portions of integrment or deeper structure taken away, and then the sides of the wound approximated, never allowing any uneasiness from tension in this approximation. In many such cases it is useless to hope for union by the first intention, so that if the aspect of the wound be such as to warrant our supposing that this is not possible, the treatment must be directed to the favouring and shortening of the granulating process, applications being made which tend to keep the parts clean, and to regulate their temperature, and these being changed as often as circumstances require. One extremity of the solution of continuity should be placed, if possible, lower than the other, to favour the exit of discharge, and thus prevent an injurious accumulation of it between the sides of the wound.

It is to be hoped that the vigorous and valuable remarks of Mr. Liston on the abominations of the poultice system, and all the filth attending it, will have the effect of bringing its application within a much narrower sphere than it has of late years enjoyed, for surgeons once being convinced that warmth and moisture are all that is useful in poultices of the ordinarykind, will no longer seek on every occasion to bedaub a wounded part with boiled bread or linseed meal, when by lint, steeped in water of a proper temperature, applied to the part, and the covered with a little oiled silk, the state of moisture and warmth can be maintained, and cleanliness duly preserved.

The constitution of the patient, the organization of the part, and the nature of the injury inflicted, must be attended to even in the choice of our local applications; heat or cold, stimulants, sedatives, or anodynes, all within our reach, being taken advantage of as circumstances may require; these considerations, however, can hardly be said to belong to our subject.

In the every day practice of surgery, we see two kinds of suture employed, which might be called the simple, and the compound or complicated—simple, when thread alone is used as the uniting medium—compound when any addition is made to this—as in cases where hare-lip-pins are passed through the lips of the wound, and the thread in figure of 8 turns twisted over them, or where pieces of quill or bongie are laid along the border of each lip of the wound, and double ligatures tied over them, so as to approximate the deeper parts of the solution of continuity by thus drawing the two quills towards one another.

The simple or interrupted suture, answers well in a great number of cases, a single or double thread, according to circumstances, being passed from without inwards with regard to one side of the wound,-from within outwards on the other. In passing the needle, the parts of the wound should first be evenly put together, made to fit well, but not with the employment of any considerable force, if they do not approximate with ease, it is more than probable that union by the first intention will not take place, and that we had better look forward to a granulating process than he dis-amounted about the others. While the edges of appointed about the others. While the edges of the wound are approximated, and in neat contact, the surgeon may thrust his needle through both lips of the wound at once and with facility; this is better than the plan of introducing the nee lle with the lips of the wound apart, first taking one portion of the integument, and then the other; for in this way, unless great care be taken, we shall not bution that even junction with the sutmes which is

insured by adopting the former method. In most cases we may pass a suture through the middle of the wound first, afterwards those towards the extremities may be introduced; the principal exceptions to this plan are in those cases where the free border of a part has been wounded, either by aceident, or by operation, as in the lip, or evelid, here the free margin had better be neatly united first by the suture, which is to be passed near to it, the other sutures, if more be required, being introduced afterwards. The degree of hold taken by the sutures must depend upon the size of the lips of the wound, and upon the apparent chance of immediate union by the first intention, for if the wound be large, a little more hold must be taken, and if it would seem that union by the first intention is doubtful, this is also a reason for giving to the threads such hold of the part as will enable them to continue their office a little longer without ulcerating more than might otherwise have been required.

Needles that are straight in three-quarters of their length, and only a little enryed towards the point, in most cases answer our purpose very well. In uniting the flaps after amputations, straight needles, ground prismatic, or trocarshaped towards the point, sometimes called glovers' needles, pierce the integument with facility; and in such cases, where the curve is not wanted, are, perhaps, the best. In passing sutures through the lips of a wound, in any concave region, such as the neighbourhood of the angle of the jaw, the axilla, or perincum, the old-fushioned curved, or almost semicircular surgical needle, may be employed with advantage.

With regard to the complicated sutures, we may remark that the hare-lip pins are more e-pecially nseful where there is any considerable drag upon the sides of the wound, either on account of position, and the weight of neighbouring parts, or from the tension, and consequent tendency to separation, which antagonizing muscles produce. This latter remark, having more particular reference to the lips, the hare-lip pins should be long and small, and of some material that may be cut easily at the extremities, after introduction—such as silver, or steel not too much hardened: the pins with moveable points, belong to the ingenious complications of by-gone surgery.

After the operation for hare-lip, the blood which oozes from the part into the thread which is twisted over the pins, glues the thread in a mass over the wound, and form, an additional bond of union for a time-which I have found in many cases adhered very well after the pins were withdrawn, provided the latter be taken out in a careful manner, so as not to disturb the adhesion of the thread to the lip. It is not easy to fix any time for the withdrawing of the hare-lip pius, but our attention should be frequently directed to the state of the part, from the end of the second until the end of the fourth day-provided we have not extracted them before the latter period-by which time the mion likely to take place, will generally have been effected. It is always desirable to prevent sutures having any chance to come away by ulceration; and this is more especially the case with regard to hare-lip pins. I have known this accident to occur from over-anxiety on the part of the surgeon to get a complete union before the pins were withdrawn. In this way, transverse scars were added to the perpendicular one, producing a corrugated and disagreeable appearance on the lip. As there is nothing in the quilled suture particularly worthy of notice, saving the couple of compresses which it gives to the wound, we need not dwell either upon its peculiarities or application.

In the dressing of wounds generally, I would recommend not much bandaging, still less plaistering. The isinglass plaister of Mr. Liston (made by Messrs, Fisher and Toller, Conduit-street, and Bell, Oxford-street) being much less irritating than the ordinary sticking-plaisters, should be generally preferred to them in cases where calico bandage, or other uniting medium, is at the same time employed; this remark having reference to the fact, that, unassisted, it might in some cases, be too weak as a single means of union,

The lower or depending extremity of the wound through which the collected ligatures may hang on cases where arteries have been tied, should not be closely plaistered like the parts above it, but allowed to give exit to any discharge that may flow by the side of the threads it contains. After amputations. I have lately not carried the roller over the end of the stump, leaving the parts in such a state, that the progress they make may be more or less observed through the transparent isinglass plaister. With regard to the mode of tying, or knotting ligatures, either in applying them to arteries, or in closing the interrupted suture, the common double noose, reversing the ends of the ligature in the second half, appears to me to answer every useful purpose, to this, of course, an additional knot would be in no way prejudicial.

PRACTICAL OBSERVATIONS ON THE NATURE, PECULIARITIES, AND TREATMENT, OF SOME OF THE MOST PREVALENT DISEASES, &c. CONNECTED WITH THE POPULATION OF NORTH CHESHIRE, AND SOUTH LANCASHIRE, EMPLOYED IN COTTON FACTORIES.

Ry Charles Clay, Monther of the Royal College of Physicians, London, College of Surgeous, Edudairgh, and Lecturer on Medical Jurisproduce and Medical Police, Manchester.

Is recording the following observations on some of the diseases most prevalent to that part of the community employed in cetton factories, particularly in a widely extended manufacturing district, with their peculiarities, and mode of treatment required under such circumstances, 4 shall be obliged to pursue the enquiry at considerable length, as some parts of the subject will naturally include circumstances connected with the locality, as situation, temperature, occupation, habits of life, food, clothing, &c.

The subject, though an extensive one, will be much more limited than if I had included the peculiarities of disease, &c., connected with other extensive occupations in the same locality, (as I intended originally to do.) In selecting the operatives of the cotton factory department, for the illustration of my present essay, I am guided in a great measure by numbers; as it must be allowed that they form the majority, and that a very considerable one, of the population of the district referred to. By this isolation, however, I do not mean it to be understood that the factory-employed hands are the only ones requiring the special attention of medical writers, but simply that the whole subject may be brought within the reasonable limits of a journal communication, leaving the question still open respecting other occupations which may form the subjects for subsequent enquiry, of equal importance with that of the present

The fact of having passed the whole of my professional life amidst the densely populated manufacturing districts, will, I hope, he a sufficient applogy for these observations, it being my conviction that the best evidence is that gleaned from the locality, the result of extensive practice and long observation of facts carefully recorded.

It is not my intention to extend these observations to an unnecessary length, by including diseases attacking only once in life, or those equally prevalent in other occupations, as both may be considered as more applicable to general rather than to particular classes of society; and will much shorten the matter under consideration.

In order to facilitate the method of enquiry, I shall divide the subject into sections. The first, from birth to the completion of the second year, the second, from the second to the fourteenth or fifteenth year, the third, from the fifteenth to the twenty-first, the fourth, the adult period of the male, and the sixth, the declining period of life in both sexes, I have adopted this division that the diseases of each period of life may be better understood as to treatment. By directing the attention of the profession to a particular locality connected with any extensive occupation. I conceive much walnulde.

information may be elicited, that may be of use to those destined to pursue their professional exer-tions in the same, or similarly situated localities. I well recollect many instances of professional men coming, hot from their studies, into the manufacturing districts, fully armed with the principles and practice of medicine and surgery, as taught by professors; whose experience has been (though extensive) founded from localities of a very different description, the diseases of which required a difference of treatment from the differences presented in the occupations, habits of life, food, clothing, &c. To such an extent may this error operate, that a line of treatment perfectly justifiable, and successful in one locality, may, when applied to another, be equally absurd and fatal. As an illustration, I might refer to the difference in character of typhus, in a stout, athletic, out-door labourer, in an agricultural district, when compared to the same disease in a weak, lax-fibred, enaciated subject, employed in a cotton mill of high temperature, and subject to constant exposure to the changes from that artificial heat, to a cold moist atmosphere without. How often have I witnessed fatal results in the practice of junior practitioners, from the use of the lancet in the early stages of typhus in the lax-fibred occupants of the manufacturing districts.

It would be impossible to approach this subject without admitting the fact that must be evident to every reflective mind, namely, that a manufacturing community must inevitably be a depreciated one, in respect to the physical powers of the human constitution. "Whoever has formed an idea of the English from Voltaire, would be surprised to find the rosy checks and robust athletic forms he talks of, changed into pallid faces, and weak, unsteady frames, that characterize the mechanics and cotton mill hands of manufacturing localities. The spade improves a population, but the loom spoils

if. What a difference between a Scotch high-lander and a Glasgow weaver! The one still retains the well-knit athletic form of the warriors described by Ossian; legs like the marble column of Lena, a breast high and ample as a cuirass, the colour of vigour in his checks, in all his deportment the tire and mettle of health and strength. The other on the contrary, is lean, ill made, old before his time, and feeble in his gait. What a contrast between an English ceachman and a Manchester spinner! The former is the very model of Baechus,—the latter of a prisoner for life."

Of late, attempts have been made to prove that the population of large manufacturing towns was not more unhealthy than others differently situated. In the recent returns under the registration act, the town of Liverpool, where little or no manufacturing is carried on shews a higher rate of mortality than even Manchester, which is almost wholly a manufacturing population.

If there existed no reason for doubting the correctness not of the return themselves, but their application to this question, it would indeed be a startling position, and of very difficult solution, but I conceive there exists sufficient evidence to prove the application fallacious.

It must not be overlooked that Liverpool has an extensive sea-port trade, causing a great influx of foreigners from various elimates, subjecting them to the disadvantages of our variable climate, which many of them reach only to die, whilst, on the contrary, thousands of the native inhabitants of Liverpool by their adventurous spirit in almost every part of the world, not unfrequently contract diseases from which, in all probability, they would have escaped in their native air, are still anxions to return to their own land, and have their remains deposited along with those of their forefathers, all of which tend to increase the rate of mortality beyond what would be its legitimate line if dependent only on its own risks, as to employment and locality. Nor is this all. The casualties of a sea-port of such magnitude and bustle are infinitely greater, which are neither subject to the situation, nor effect on the constitution by employment. And lastly. Liverpool is the almost only available place of resort (sea air, for bathing, &c.) for one of the most extensive, and certainly most populous manufacturing districts in the world (not for the rich who

sire places of resurt) but to innumerable shouls of the worn down, emaciated artizans for thirty of forty miles around, thousands in ill-health seek temporary relief, very many in the last stages of phthisis go there because their neighbours go, and others from bad advice, swell the bills of mortality in a distant locality after contracting the cause of death in their own neighbourhood. To be convinced of this the reader has only to perambulate the grave-yards of that extensive sea-port fown, when he will find scarcely a tombstone but its records are chiefly those of strangers. After this let the right horse be saddled. Liverpool has in truth been but the last resting place of thousands who have fled thither in hopes of defeating the tyrant hand of death, whose grasp had been felt as mercites before they sought a purer air elsewhere.

I must not, however, omit in this place to state that although the manufacturing employment is decidedly and unquestionably permicious, (indeed I believe the medical man is not to be found who could enreflection deny it,) yet it is equally evident. bad is made much worse by bad habits and indulgencies, producing as a natural consequence miserable dwellings, wretched clothing, and scanty, cheap, and indigestible food.

I shall now bring these introductory remarks to a conclusion, by at once entering on the subject already spoken of. In doing so, without considering which epoch of life is the most important, I shall commence with the period of infancy, and conclude with that connected with the declining

It is almost unnecessary to request the reader to bear in mind that my subsequent observations are in reference to the working classes only, of a particular occupation, and as such are to be estimated.

CHAPTER 1.

Tron Birth to the Completion of the Second Year.

One of the first objects which arrested my attention (connected with this subject) was the average smallness of the children at birth, not merely in weight but stature. I had been for some time accustomed (as a student in Edinburgh) to see the children of the working classes at birth of much larger average size, and when I commenced general practice in the factory districts in 1822, the contrast appeared to me the more remarkable. From a number of observations I made in the early years of my practice, I found the average weight to be barely six and a half pounds for single births, and about ten pounds for twin cases. In Edinburgh some statements were made of averages at 72lbs, single births and 11lbs, for twin eases. In respect to the length of the feetus, autthors very generally consider the average length to be about eighteen inches, whilst I was seldom able to meet with a child that length, so that the average must be much less. Again, the challs coloured substance, to frequently found adhering to the child's body, and which is generally associated with fotuses of mergre growth, is more frequently met with among these districts than in other places; the same may be said of the fimis. when very thick. I have often observed a very thin strongly organised funi, attendant on the largest and most healthy children; but in the clasof persons alluded to, the thick funis is very prevalent. From these observations, the inference will be drawn from the integrability at both that difficult labours are comparatively rais, 57, 64 the fact; and on which I half speak particularly, when on the section of idult female diseases, &c., but it is necessary to state, that children do not often suffer much from long continued pelvic pressure, although asphixia at birth is a prevalent appearance. In treating of the diseases infancy, asphixia will be the fir too which I shall direct the attention of the reader. The most usual cause of this affection appears to me to be constitutional debility, they are cases (which with very few exception recover very well by allowing a little time before the funis is divided. Tam con vinced that many coss prove fatal from the inconsiderate haste often practicel in this respect; it ought therefore to be made an imperative rule, never to divide the firm while the sightest pulsation remains in the cord. The extent to which aptha pre- of the sight, or any affection of the venue of smell,

vails is very remarkable, scarcely a child but what suffers severely from it; and this, in a great measure, is owing to the absurd custom of almost burying the child under the hed-clothing, where the air soon becomes charged with deleterious principles, which the child cannot breathe without considerable injury, which is first manifested on the lining membrane of the mouth and fances, soon to spread, if not checked, along the whole alimentary canal. Many of these cases, though apparently simple, ere icmarkably obstinate of cure; and I have found that medical applications are next to useless. if not second d by improved principles in marsing. No plan succeeds so well as the insisting on the child being so laid as to insure a good supply of fresh air to the lungs; that is, not to bury it in the bod, but place the body so as to be perfectly warm, but the head to be raised on the pillow, and the face bare. It must also be borne in mind, that it is much healthier for the child to lie on a pallet by itself than in company with other children, or even with the parents. The mother, after suckling, should invariably put the child from her, on a separate pallet, by these simple means the first passages will seldem suffer from apthie. The old remedy of the sodie boracis rubbed down in honey, is, after all, excellent; the only improvement I can suggest, is the addition of a little pulveris cinchona, or a little infusi calombae to the old remedy, which makes it considerably more efficacious, and seldom fails in curing, if the above hints in the nursing department be attended to. Acidities in the tomach and intestinal canal are abundant enough in all classes of society; but particularly so among the factory community; arising from the wretchedly-bad marsing, and worse food, to which the children are exposed. I have frequently known mothers compelled to go to factory, and leave their infants (whilst very young) to the care of some bired old woman, who has probably two or three to look after, of different ages-who fed them all with some badly-made, and often som, porridge, all out of the same vessel,-eranamed the children. head and heels together, on a dirty bed, or crib, in a dark corner, as far removed from air as it is from

P. Condos d

COURSE OF LECTURES ON THE DIAG-NOSIS, PATHOLOGY AND TREATMENT OF DISEASES OF THE NERVOUS SYS-TEM.

SARSHALL HALL, M.D., LRS., I. 1 tole 14 - 0

DUCTURE H., Thehy and Dicember ., Isr.

Gentlemen, I purpose in the present lecture to draw your attention for a very few moments to what passed on the former occasion, and then to show you the more immediate application to practice of the principles I then kild down; to show you the practice, as well as the diagnosis and prognosis of diseases.

I take it for granted, now, that we already understand that the nervous system is divided into three portions,- the cerebral, the tree spinal, and the ganglionic. With regard to the cerebral, 1 need hardly tell you that it is the system to which we refer all sensations, the senses; we refer to this system also all intellectual and mental operations -the judement, the memory, and all the voluntary motion. I will just now state to you what I think is a very interesting point arising from this imple arrangement of the subject. Suppose you me called to a case of disease; your object is invariably to ascertain what are the symptoms of the case, and you must go through every one of the symptom. Now, suppose it is an affection of the broin, whose you want nothing to be interrup to k for every symptom to be united, and nothing importest what do you therefore inquire for? Whether, in the first place, there be any affection of the senses; whether, in the end place, there be any affection of the intellection of the intellection. bet; and whether, in the third place, there be

or any affection of the sense of hearing, and so on. These, you will find, will be useful guides to the symptoms of diseases of the cerebral system. Now, then, the next question is, whether there is any affection of the cerebral system? In determining this question, the principle I have laid down enables me to commerate the functions of the true spinal system. What are those functions? They are, in one word, all the acts of inglutition and deglutition belonging to the animal economy. First of all, the inglittition of the atmospheric air, inspiration, and expiration, in general terms; then there is the ingestion of the food, which is an act of deglutition, or any other function of inglutition there might be; for instance, the act of conception. Then come the acts of expulsion: the expulsion of the forces, and the function of the bladder—the function of the sphineters. For I have said that the spinal system comprises the oritices and the outlets of the body. What we next come to inquire is, whether there be any morbid affection of the orifices or the outlets. But, to return to the cerebral system. You remember what I stated in the previous lecture. It was, that the cerebrum itself is not capable of exciting motion: that if you injure the cerebrum in any way, or lacerate it in every possible way you can devise, you cannot induce anything like motion or muscular contraction, or spasmodic action. Therefore, it is quite plain that if there be a disease of the brain-confined to the brain-you will have no spasmodic action; you may have an affection of the senses and the intellect - as in insanity; you may have a morbid affection of the voluntary motions, such as the act of mania, but you will not have a spasmodic action. Why will you have no spa-smodic action? Because any disease of the brain is incapable of producing spasmodic action, or any muscular contraction. When, if you come to a case of disease of the brain, you find spasmodie action, and at the same time convulsion or contraction, or anything of that sort, you may be sure of one thing,-that, however much of disease of the brain there may be, there must be something more; the spinal marrow itself must be affected. And so with regard to all those functions and motions belonging to the spin d marrow. Now how are we to come at the disease? Sunbose a person taken comotose, as in apoplexy. If the disease be limited to the brain, von will have no affection whatever of those functions which belong to the spinal marrow. You may have less consciousness, you may have perfect insensibility, and not the slightest power to move the hand or the leg; but, if you have other symptoms besides, you may be sure the disease is not one of the brain, or that it is not one, at any rate, confined to the brain.

We have lost a very valuable member of the profession very recently from an attack of apoplexy. I was asked the question respecting the probability of his recovery, and I said what are the symptoms? And it proved that there was stertorious breathing. Anything else? -Yes, there was disphagia. Now you observe that in case of disphagia you extend beyond the cerebral system, you come to the spinal system, and I can say from the result of my own experience as a physician, and that of others, that phagia is always an exceedingly tatal symptom. I do not mean to say that no patient will ever recover from displagia, but I do mean to say that the prognosis of displacia is more fatal when there are other symptoms of decided apoplexy. If the patient breathe pretty well, you may be sure that no vital organ is affected. But the moment the breathing is affected, the spinal marrow becomes affected, and you may trace the severity of the disease in the severity of the respiration. If continued, the patient dies, if, on the contrary, it ceases, the patient may recover. What I want to impress on your minds is, that if, in addition to cerebral affection, there be a true spinal affection, so the prognessis becomes intinitely more palpable, and the disease infinitely more difficult of treatment. Have we not, therefore, here a clue to the diagnosis? Have we not als ca clue to the prognosis?- and have we not more certainty as to our mode of treatment? I have said

touch the spinal marrow in any way but you produce spasmodic action. If you touch the medulla oblongata, or if it be affected by disease in any way, there is immediate convulsive action, immediate muscular contraction. If you then come to a disease in which spasmodic action occurs, you may be sure that the spinal narrow is injured. Disease I have said affects the spinal marrow, but this may be produced by some organic disease elsewhere. And this, I should state, is an important thing, if there be pressure on the spinal mar-row it will produce spismodic action. There is an interesting case recorded by Mr. Laurence, in which a feetus was born without a brain. When pressure was applied to the medulla oblongata the body was thrown into convulsions. There is also an interesting case recorded by Dr. Abererombie, in which there was effusion into the ventricle of the brain to such an extent as to separate the parietal bones, and there was a considerable tumefaction. On touching this there was no convulsion, but the moment he touched the medulla oblougata the child was convulsed. You see then what happens when the spinal marrow is injured by organic disease or external pressure. There is a disease of the brain called hydrocephalus. Now in one case of this disease of the brain there are convulsive actions,-and why? Because it is quite obvious there must be pressure on the medulla oblongata. But in one case of hydrocephalus there was no such symptoms, because the bones of the skull were not united,-means could be adopted to separate them from each other? Now in one ease you have no injury to the medulla oblougata, whereas in the second case, pari passu, the result may be convulsion or spasmodic action; so that it is quite obvious there cannot be convulsive action from pressure or disease of the medulla oblongata. but some other part of the spinal marrow must be diseased. Now then we will return to the disease cafled hydrocephalus of the brain.

One of the most important symptoms of this discase of the brain is the rigid contraction of the limbs and the muscles of the body. How do you account for this? I have said that disease of the brain cannot produce spasmodic action. How do you account for this then? This question I put to some medical friends of mine in Paris, and not one of them could afford an explanation of the phenomena, It is obvious from what I have stated to you, that in acute hydrocephalus there is a considerable degree of tunctaction produced, which results in a pressure on the medulla oblongata, and here you have the symptoms accounted for,

I think it must be already perceived by you that this study is one which-whether it be viewed with regard to its philosophy or physiology-is one that has immediate application to practice, which is a point of great importance to you all.

Now, before I go any further-to the department of the science of medicine to which this matter has immediate application—I wish to show you that the phenomena I have been describing are made obvious under various circumstances. frog is deprived of the cerebrum by an incision just below the occiput and just above the origin of the brachial plexus. It was a perfectly lively frog before the incision was made. If I touch one of the unterior extremities, it is immediately withdrawn: but what I wish you particularly to observe is, if I irritate the other extremity it is not withdrawn. Now the first incision made was to sever the brain from the spinal marrow, therefore there can be no voluntary motion. I have removed the central organ of voluntary motion. If I touch the anterior extremities, it will show there is a connection with the spinal marrow. By what means?-voluntary nerves? No; for that cannot be, unless they continued uninterrupted to the brain. There is here no continuance, inasmuch as I have separated the brain from the spinal marrow, from which the action of the voluntary nerves is reflected to the muscles, What is the reason then that we have no convulsive effect when I irritate one of the limbs? The reason is this-we have divided the sciatic nerve. You know that the spinal marrow is the centre from which springs the sciatic nerve, and as this nerve receives an impression, its effect is carried out in a reflex way on the muscle. The reflex affected may affect these different secretions.

action is perfect because of the perfect connection | believe the ganglionic system is divided into two with the spinal marrow. At the former becure 1 | portions—the external and the internal. Now, showed you the experiment of a frog acits brain, and its gauglionic system entirely, but I did not show you the more important experiment arising from it. We may deprive the frog of the brain and gauglionic system entirely, we may divide it entirely, and yetwe shall find that-the two anterior extremities being endowed with a like proportion of spinal marrow, when I irritate one extremity it appears to move, and the other does not. It is one of the most remarkable experiments I could bring before you. You have actually a portion of the animal living by the true spinal ystem.— Here I have a salamander, in which the phenomena are exceedingly interesting, because f Ihave actually divided the spinal marrow in three This salamander was alive a short time ago, and notwithstanding that I have divided it into three parts, when I touch the anterior extremities they move, when I touch the posterior extremities they move, and when I touch the last portion of all, the tail, that moves also. Another experiment is exceedingly interesting in another point of view. You may have the several parts of an animal in a state of tetanes. This salamander is made tetanie by applying to it a few grains of strichnine, and afterwards dividing it. portion to which the anterior extremities are attached is tetanic, the posterior extremities are tetanic and the tail itself is tetanic. Having made the animal tetanic before I divided it, the portions themselves remain tetauic, and I show this experiment to prove that some change has been effected to cause retaints in the spinal marrow itself, and the nerves connected with it. Tetanus must have made the change, because every part of the animal is tetanic. Therefore, it is certain that not merely the spinal marrow, but a congeries of organs, or succession of organs connected with it, have been affected, and it is very possible that the communication of the spinal marrow with the ganglia in the crustaccous animals may be really proved by experiments of this sim-

To revert once more to the functions of the spinal imarrow. It often has the power, when touched or injured by the least thing in the world, of producing spasmodic action, and I need not tell you again that the same power acts in inglutition and deglutition, and that the same power acts in closing the orifices into the body and closing the exits, the sphincters and passages that lead out of the body. In all spasmodic action the spinal marrow is effected. I do not say primarily, but secondary only, and this is the case with disease of the brain, where the disease or affection of the brain is not confined to the brain itself, but affects other organs. Disease of the brain may occur in a distinct form, in that sense of the word, in connection with the incident nerves. a case of some morbid crudities being taken into the stomach: these erndities may affect the pneumogastric nerve, which will carry the effect to the medulla oblongata and the impression may be further reflected. This is the case in many convolsive diseases in children, as well as adults. may just mention a fact which is very well known to you all; you may irritate the sphineter of the bladder. You know the effect of calculus, which is to produce such a contraction of the sphincter ani as to disable the patient from discharging urine. A patient came to me the other day with this complaint. I begged an efficient surgeon to pass a eatheter; that gentleman did so without hesitation, and withour knowing my object. What was the consequence? He impinged on the calculus. I knew that must be the case; but I Caught to make the case doubly sure by having the catheter passed. It was one of those happy hits that we experience in pursuing pathological and physiological investigations.

Now, we know nothing of the ganglionic system. or at least, very little is known of that system. That subject remains to be investigated and developed by those who come after me. The gan-glionic system is that power under which all formation, all nutrition, all absorption, and all secretion is performed; therefore, that being

what are these intended for? We may suppose the internal ganglionic system is for nutrition and absorption, and that the external ganglionic system is for the same purpose; so that, while there are internal organs requiring nutrition, there ere also external organs requiring nutrition; and the same with secretion. I need hardly tell you that perspiration is usually performed by the external organ, and that would lead us to suppose that there are internal ganglia for internal purnoses, and that the external ganglia may probably be for external operation of the same kind: and it is so. There is a very interesting experiment by M. Majeudie; he gave me an instrument by which he could readily divide the fifth pair of nerves within the cranium, leaving the casserian ganglion in that part detached from the brain. It is quite plain, therefore, that here you have the nerve injured with the ganglia upon it. What is the consequence of this injury? The eye is not nourished. It appear to me, therefore, that if you injure the casserian ganglion, the consequence is, that the eye is not nourished; that this organ is the organ of the nutriment of the eye. I must make one remark: it seemed to him that this experiment was of little worth, for it led to nothing. But, gentlemen, it so happened, a very short time after that a patient in one of the hospitals in Paris lost an eye; the surgeon under whose ireatment, the patient was placed, happened to know the experiment of Majendie, and he said," what is this,—disease of the eye?" He did no "what is this,—disease of the eye?" He did no suspect the injury of the nerves which lead to the globe of the eye. he said, "how am I to treat this case? what do you think is the treatment you have only to press the eye back." Now, i every instance in which the eye is perfect and uninjured in its structure, whenever you touch the eyelash, the eye closes; so that, if you touch the cyclid and it remains stationary, you may come to a conclusion of this kind-that we have a secondary kind of evidence of the destruction of the tifth pair of nerves on the brain. However, very naturally, the patient died. On examination he found the structure entirely disordered; of course, the titth pair of nerves totally destroyed. Here you have a very interesting series of facts; first of all the experiments founded on the diseasethe disease indicating the experiment-and then the series of nerves performing the office of nutrition to the ocular structures under the influence of the casserian ganglion within the brain. If that is the case with one set of nerves, we may argue that it is so with all gauglia in connection with the nerves proceeding from the spinal column. I cannot go further. because I am not aware of any facts to prove it; but, I say, that if the destruction of one ganglion will produce a certain effect, you may conclude that the destruction of the other gaugha of the same kind will produce a similar effect to the organs with which they are connected.

Thave just laid before you my notion on the subicet. It is that the internal ganglia with their nerves constituting the ganglionic and sympathetic system, are for the purposes of nutrition, secretion and absorption internally; whereas, the external ganglia are for the purposes of the nutrition of the exterior of the body. Having gone thus far, what I wish to do now is to go once more over the three divisions of the nervous system; namely, the cerebro-spinal, the true spinal, and the ganglionic. I might add a few observations on another subject, namely, the state of the functions generally, in a state of rest, and a state of linking, or a state of slow dissolution; but I would rather leave that part of the subject for a future opportunity, and pursue the subject in a different direction. I want now to bring before you the true spinal system, and to show what bearing it has on that division of the nervous system which I am laying before you. Suppose the case of a fectus in the uterus. I need not tell you that no use can be made of the internal senses, if they are kept from any external impression. I might almost have said, there is little or no need for the true spinal system. But there is a need of the true spinal system, and it is of this kind. Without the true spinal I system, the eye-lids might be irritated; without a

true spinal system, the liquor annii must pass into the trachea—but I have no doubt the larynx is well covered in the factus, so that it cannot depend on the continual operation of the spinal system-and if the laryny is closed, a drop of water placed in the mouth would pass into the glottis. There are secretions in the bladder; now these secretions might be expelled, if it were not for the safeguard of the true spinal system. One most important point of the uterine nervous system is the ganglia. I need not tell you that all formation goes on-every act of formation-every act of nutrition-every act of secretion, implies the continual agency of the ganglionic system. Now this proves what I have been saying, and here we have one of the most remarkable cases. In the first place, the focus is born without a brain, and is perfectly developed. It is quite plain that a fo tus perfectly developed may, nevertheless, be entirely destitute of brain. One case is recorded by Mr. Lawrence. The spinal marrow was perfect from the beginning; so were all the gaugha perfeet; the infant was perfectly developed all but the cranium, there being an entire absence of brain. For instance, the feetus was born with no cerebral life. But Gentlemen, the feetus lived in this case, for a short time, a true spinal life. It ents, and swallows, and evacuates; the intestines and the bladder perform their functions. I wish here to make one remark. It is, that the brain has nothing apparently to do with the functions of the true spinal marrow and the ganglionic system; yet these functions cannot grow without the brain,-that is to say, no animal can live long without a brain, if I except animals of the very lowest orders. If a focus is born brainless, it may live forty-eight hours. I have watched a for-But what is its life? Its life is mere breathing: a mere capacity for swallowing. Nothing is more interesting. I was going to say, more awful, than to see a human being deprived of that which is the type of humanity - namely, the brain. We know, then, that such a feetus commot live; but such a fectus may cry; that is to say, it may make peculiar noises, which may be considered crying. Yet we should be perfectly aware that such an event may take place. It may take place under much more painful circumstances. I was told, but the other day of a case, similar to a case given in the Medico-Chirurgical Transactions; it was necessary, from deformity of the mother, to have recourse to the stop of cranitomy, and this was performed in the most perfect way. The child was born, and it cried: but it is impossible to say that the child cried, in the ordinary use of the word. You can hardly imagine the state of mental barass and suffering of the practitioner in such an event as this. Why do I menrion it? In the first case, because it is an exceedingly interesting subject; and in the second case, to put you on your guard, if you are ever called mon to destroy the brain, be quite sure that you destroy the medulla oblongata. Well then, as I said before, the child may live forty-eight hours: it will never live beyond that period. Thave made one remark, which I repeat by another observation, namely, that the animal functions cannot go on permanently independent of the brain. In idiots, life is found to be pretty nearly in propertion to the brain. We find that idiots with small brains generally are hort-lived, but it the brain be developed they may attain to the age of puberty, or even long life. We have seen, therefore, that a fectus may be perfectly found without a brain, and may have the medulla oblingate How do we know that? In the first place, there are many cases on record of a feeds born without brain, without spinal marrow; without a particle of either of these organs, yet perfectly developed. I have such a focus in my museum. The feetus is perfectly sound; every fimb is perfect; every internal organ is perfectly formed: the ganglionic system is perfect, and all the nerves going to the spinal count perfectly formed; nothing is wanting but the spinal marrow. Here then, we have a most perfect formation, all under the guidance of the ganglionic sys-The intra uterine life may be quite per-

marrow; but what happens the moment the child is born? It cannot breathe; it cannot live an instant; that is to say, not longer than it could in any other circumstances, deprived of respiration. Here you have a most interesting fact whilst in that of intra uterine life being perfect during the period of nine months, and the extra uterine life cannot last five minutes.

I must conclude this lecture with an observation or two on circumstances that will occur to you all in actual practice. It often happens that a fœtus is born still, apparently in a state of apoplexy. I believe still-born children are, generally speaking, placed in peculiar circumstances. The brain may be compressed, as in hydrocephalus, and that may cause a compression of the medulla oblongata. If that is so the child cannot live; you have no means of removing the cause. But the child may be still-born sometimes, that is to say, it may not begin to breathe, though there is no apoplexy of any kind. Then the first question is as to the diagnosis. I have not the slightest idea of the diagnostic phenomena. One of the most interesting points to determine is the diagnosis between a still-born child in consequence of the compression of the brain and the medulla oblongata, and the other case of asphyxia, depending on other causes. The first question to be considered is,-as respiration is the new life to the fortus, what is the cause of respiration? 1 consider Professor Muller perfectly wrong in supposing that the causes of respiration are dependent upon the circulation of the medulla oblongata. I tell you once for all that this perfect circulation of the medulla oblongata is necessary to respiration, and that without this excitor, respiration cannot be excited. However, the respiratory phenomena are not physiological acts, and to this point I shall have again to advert. When the fœus is born. I believe the first excitement to respiration is the impression of cold air on the nerves of the whole surface. A friend of mine once attending a very interesting case; the child was just born, he waited until he should hear the child either breathe or cry, and having waited for the usual length of time, the child did not either breathe or cry. He was about to take it from under the bid clothes and try resuscitation, when the moment the clothes were lifted up, that moment the child made a gasp. This was the beginning of that respiration, without which life cannot exist. Here is an interesting fact. Suppose a case of an infant still-born, what would you do? You will naturally say what is the physiology of the case? What does nature do? Nature makes an impression on the whole surface—then you may follow nature. I believe it is common to blow in the face of the child, and on the general surface, and in this manner the act of inspiration is excited; if that does not do, then, without allowing the infant to cool-for if it does the impression cannot be made—take a few drops of very cold water, and dash them on the face. There are other means to be adopted, but this I believe to be nature's means, and the imitation of nature's means I think decidedly the best. The surface of the child ought not to be allowed to cool, for if you dash cold water on a cold surface, you will produce no impression; there is no difference of temperature, and therefore no impression can be made. You must take care that the general surface is kept execcdingly warm, and then you produce only a contrast between the warm surface of the body and the cold water. By applying cold water to a surface never cold before, you produce the peculiar effect which is the act of respiration. I will not go further into this subject, because my object is at this moment only just to bring forward facts to illustrate the general subject, and I shall, therefore, leave it for those whose more immediate duty it is to address you on the subject of resuscitation from a sphyxia.

Instead. The foctus is perfectly sound; every limb is perfect; every internal organ is perfectly formed; the ganglionic system is perfect, and all the nervos going to the spinal canal perfectly formed; nothing is wanting but the spinal marrow. Here then, we have a most perfect formation, all under the guidance of the ganglionic system. It repeats then that the brain is the centre of the cerebral system, and the centre of all those phenomena which relate to sensation, intellectual power, and coluntary motion, and that by means of the brain we are, as it were, connected the internal world mentally. That it is by this means I can place my finger in a certain potential.

sition, and take up an instrument, or anything else, and put it down again. I make use mentally of external objects—all those objects that are external to my senses. If we want to arrive at an object it is under the guidance of a certain set of nerves that we are enabled to do so; it is by means of the impression made on the external nerves, which impression is reflected on the nerves in the interior of the body. If a certain element or fluid be placed within the larynx, it is often that no sensation takes place, and it shows that it is entirely independent of the cerebral system, because a focus without a brain may swallow and perform the organic functions in the same manner as a perfect being.

In the diagram here given

TABLE OF THE TRUE SPINAL AND EXCITO MOTOR SYSTEM.

210.4	
A. Is and St. Excitor Erist	C. The Ritley Motor
CH1 5-	BRANCHES.
_	-
t. The Infactal arising from	<u> </u>
	The Trochleans oculi
A. The Tylashes	E B. The Anduceus
r. The Ala Nasi	The minor portion of the
The Nestril	5th
The Tantes	2 L. The Facial distributed to
I The Lace.	a. The orbicularis
	A The Trochleans oculi b. The Abduceus oculi c. The minor pertion of the 5th L. The Facial distributed to A. The orbicularis b. The levator Ala nasi
2. The Pap amogastric, from	= 5. The Uncomogastric, or its
. The Pharynx	₹ accessary
r. The Larynx	E A. The Pharyngeol
c. The Bronchia	accessary A. The Pharyngeol B. The Lalyngeol
p. The Cordia-kidne, and	The Bronchial
liver	p. The Cervical, Ac .
	2 c. The Bronchial D. The Cervical, No. 6. The Hye-Glessal 7. The Spinal, distributed to A. The displutagen, and the p. The Intercestal, and 1 c. The abdominal muscles
2. The Posterior Spanal, arising	7. The Spinal, distributed to
ir m	A. The displacam, and to
No.	P. The Intercostat, and
A. The neutral strine	2 c. The abdominal muscles
B. The glans penus - vel	8. The Sa ral, distributed to
clitandes	8. The Sa ral, distributed to
C The Anns	
p. The Cerux vesicæ	f n. The expulsors, the easen-
F. The Cervix utera	laters, the fallopian tubes,
	the nterus, &c.

you see the whole of the functions that come under the guidance of the spinal marrow arranged, and it is important to earry that arrangement in your minds, because, whenever you have to inquire into the nature of a disease relating to the spinal marrow, you cannot have a better arrangement in your mind to assist you in ascertaining the different phenomena, and the different symptoms of the disease. If you come to the ganglionic system, you will consider whether it has any relation to the subject; whether any disease can be referred to this system. But I say, the phenomena of this system are very obscure, and so is its morbid anatomy very obscure, and therefore I cannot say one-tenth part about the ganglionic system that I can about the cerebral and the true spinal. There is no question that morbid states of the urine may be induced by morbid states of the ganglionic system, and so also the morbid sceretion. In this manner you observe that physiology has immediate reference to pathology; pathology refers to diagnosis, to prognosis, and to practice. Whenever I go to visit a patient who is affected with nervous disease, I always go through in my own mind this arrangement, whether there is any affection of the intellectual power; whether there is any morbid aberration of the mind, or any affection of the voluntary motions. If I see anything established, I trace in my own mind all that relates to the true spinal marrow. I have no difficulty, because I am led to consider which functions are essential to the circulation of the spinal narrow. Lalso inquire whether there is any internal disease in conjunction with or dependent on any morbid state of the ganglionic system. In this manner I have a most useful pneumonic. I hope I have said enough to convince you that to be good physicians you must be good physiologists. I cannot imagine, that any one can be a good practitioner, without being able to trace in his own mind, all that is known of the physiological condition, as well as the pathological condition of the patient. In fact, without physiology you cannot understand the nature of the disease, or take one step with regard to the treatment. I purposely avoided to day, many allusions to therapeuties, of which I gave you some examples at the last lecture, and I am anxious not to protract the subject beyond the second lecture; especially because I think that the ensuing lectures ought to be confined to the diseases of the nervous system. I shall therefore take up, at the next lecture, the cerebral diseases, and then go in the usual manner to the different diseases of the nervous system.

THE MEDICAL TIMES ALMANAC. FOR 1843.

CONTAINING A CALENDAR FOR THE YEAR OF UNIQUE VALUE-FORMULE FOR THE CALOTYPE PROCESS—AN AM-PLE SKETCH OF THE ANATOMICAL AND PHYSIOLOGICAL DISCOVERIES BY THE MICROSCOPE—A DESCRIPTION OF THE SYMPTOMS, TREATMENT, AND TESTS OF ALL POISONS—AN ABSTRACT OF THE PHARMACOPGLA—WITH THE USUAL MATTER OF A GOOD ALMANAC.

PRICE 4d., STAMPED 5d.

THE MEDICAL TIMES.

Saturday, December 24, 1842.

A false-hearted rogue, a most unjust knave; I will no more trust him when he leers, than I [will a serpent when he hisses: he will spend his mouth, and promise like Brabler, the hound; but when he performs, a tronomers foretell it: it is predigious; there will come some change.

What, in the name of charity, are we to do with that miniature Paraeclsus of the Nervous System—Dr. Marshall Hall? What unseen demon possesses him, that he so resolutely violates all that common sense and honesty most plainly teach in his eagerness, to make enemies, and hasten his ruin? Horse-whipped by a fewsnubbed and disowned by many-laden, bowed down, shrivelled up with the contempt and hatred of more; shunned and detested as something loathsome in the pathways of Science, by all who at any time have been condemned by circumstances to put up with his acquaintance -thus discredited,-thus dishonoured,thus degraded-without a friend-without scarcely a recognizing acquaintance, he yet acts-this wretched man-as if he had no future duties on this earth but to prove the justice of his ignominies, the personal earning of his calamities. Where, or under what circumstances, is it possible to conceive so favourable a fortune for him, as in the forbearance, the kindness, the overflowing charity with which we have ever treated this unfortunate victim of his own unprincipled temper? When referring, a short time back, to the unmerciful pecking he received from Dr. Copland, who pulled from him-before the amused audience of the Medical Society-every gaudy feather | SIR,-Observing an advertisement on the cover

expence, he had so liberally decked himself —did we not step out of our way to urge him to more original efforts, on the friendly plea, that he might trust more to the native powers of his own mind! At various intervals, have we not inserted the little notices to which he was personally anxious to attract public attention ?-charitably feeling that, if true, but not newor new, but not true - 'twas a pitiful category, which should not hinder our recollecting that, as the plainest wife must have clothing, and the poorest horse stabling, a persecuted physician can pay for neither, without patients. Finally, a fortnight since-summing up our kindness in one cumulated effort-did we not pledge ourselves to do him that service of servicesthe "sorest test" of friendship-publish his lectures? And, stretching courtesy to its height—using that liberty with our own friends, we would not have ventured on to the readers of any other Journal-did we not speak of these lectures as a suitable pendant to our admirable lectures by Professor Owen (perhaps the similarity of subjects may pardon this), and further, venture to attach to his name (in our own Journal, at least) that word, "distinguished," which, applied to any other F.R.S., would have carried not the most distant shadow of irony with it, but which, applied to our unfortunate Paracelsus, has produced us more quizzing letters than all the other subjects ever handled in the Medical Times? Was ever godsend, to a man struggling with circumstances, more complete or perfect than this? But our predestinated friend returns for this-the aid, the kindness, of a powerful Journal-not "une isolation noble et fiere," though that might be absurd enough, but a bold course of desperate hostilities, which he even violates honour and breaks faith, forthwith to commence. It is written, that the hand of Ishmael was against every man, and every's man's hand against him. Verily, Marshall Hall, reviving this worthy character, is our MEDI-CAL ISHMAEL. Appropriating, as usual, his predecessor's highest feats in this peculiar mode of distinction, he (not as usual) here excels him-for our Ishmael's hand is not only against every one else, but against himself,—his hand is against *Hall*, and the hand of Hall against him. But, without more preface, let us put the whole transaction before our readers,-such as Dr. Ishmael Hall's letters to the Editors of the Medical Gazette and Lancet, with our explanatory reply, exhibit it. Our reply has been sent to the Editors of those two Journals,-and as we cannot, with stretched ingenuity, divine a reason why it can honestly, or even decently, be denied by them publication, we may take it for granted that it will appear, at least, in the Medical Gazette. To the conductors of the Lancet, "honesty and decency" are appeals that find no place to impinge on.

To the Editor of the Medical Gazette.

with which, at Sprengel's and Boerhaave's of the last number of your journal, relative to unchanged, that he did enter into a spon-

the publication of my lectures, I think it proper to make the following statement.

The short-hand writer of the Medical Times called upon me a few days before the commencement of my lectures at St. Thomas's, to say that it was his "intention" to take down my lectures for that publication, adding that, as he was not versed in medical terms, it would be a service to him if I would correct any verbal errors in his MS. I replied that I had no objection to do so; preferring that my lectures, if published at all, should be published correctly. When I read over the notes of the first lecture, I found them, from the cause assigned, so incorrect, that it became necessary to re-write them. This too, from the same motive, I was also ready to do, time being given. But having consented to correct my lectures for correctness' sake, I did not expect that the matter would be made public, as if I had entered into a spontaneous arrangement with the editor of that publication. I beg to add that, on seeing the advertisement on the cover of your journal, I immediately addressed that gentleman, withdrawing any co-operation whatever in this matter.

I am, Sir, Your obedient servaut. MARSHALL HALL. Manchester Square, Dec. 10, 1842.

(REPLY.)

To the Editor of the Medical Guzette.

Sir,-Your insertion of Dr. Marshall Hall's injurious and certainly not over correct charges, gives me a claim, in honest English fair play, to a reply; and I dare say our being fellow Journalists will not invalidate that claim.

As far as Dr. Hall has made himself understood to me, his charge or charges resolve themselves into this:-That I announced his correction of his lectures "as if he had entered into a spentaneous arrangement with me." He does not complain of my doing something, but my doing it as "as if"-a kind of constructive guilt which once counted against the sovereign, and still counts, it seems, against Dr. Marshall Hall, Fellow ot the College of Physicians. Unfortunately, even this ingenious "constructive" charge is without truth. The announcement I ordered is the shortest, plainest, least ambiguous, and most free from "as ifs" possible, viz, "a set reported verbatim expressly for the Medical Times, and carefully corrected by the Lecturer"-ealling the most possible attention to the reporter's labours or merits, and the least possible to those of Dr. Hall. When Dr. Hall therefore asserts that I announced explicitly or implicitly "his entering into a spontaneous arrangement with me," he says that which is not true, as he knew. But though I announced no such thing, Dr. Hall knows there was a spontaneous arrangement - with me too- and not with me only, but with the reporter also; and this twofold spontaneous arrangement was not only to correct, but to RE-WRITE his lectures: and conscious of this disgraceful compact-for it was disgraceful to him, if it were meant underhand and on the sly; his timidity took everything, however distant, for the divulgement of his compromising secret. He himself avows he did not discourage the reporter's intention to give his lectures. He owns he offered him assistance; that he pledged himsell to correct, nay to rewrite them, and although he now explains the latter offer by the flimsy and palpably false pretext, that the lectures needed it from the incorrectness of some medical terms (which any medical man could correct in five minutes) vet the fact is

to have his lectures reported, secondly, to revise them when reported, and thirdly, to rewrite them. But further, though Dr. Hall says he undertook the revision and rewriting to do a personal service to the reporter, who applied, according to 1'r. 11., not for me, not for the journal, but for him, the reporter, (Dr. Hall marks this fact in italies) yet unwritten to by me, unasked, uninvited, spontaneously, if he like the word better, did Dr. Hall write to me, hitherto a passive party in this matter—to what effect do you think. Sir? Why, that it had occurred to him (kind friend!) that it might be well to postpone the insertion of his lectures until the first number in the new year," and "undertaking in that event to write them out Limself." He gave his reasons. "They would be more perfect, and of more service to me." (the editor of the M.T.) But his considerate kindness, his provident solicitude for me did not end here, for he "arranges" to do the work "well," and concludes with a familiarity of friendship which puts my modesty to confusion. "You MIGHT INSERT SEVERAL NOTICES, AND EXCITE A LITTLE EXPECTATION!" This letter is dated the 8th inst., the advertisements announcing careful revision by the lecturer appeared on the 10th. So you see, sir, the "spontaneous arrangement" which the fastidiously delicate "Fellow" thinks so disgraceful even in imagined possibility, absolutely did take place in full plenitude, with every aggravating complication, and that too not only with me, but with my employe also!

Dr. Hall being a gentlemen who can do great good on small inducements, says that he offered to re-write the lectures because they were so faulty. They may be faulty-but as every one sees on reading them, they are exactly as he delivered them. If this then be a charge againt himself, let him answer it to his in-ulted andience-if against the able reporter, whose bread depends on his reputation, it is a miserable calumny which no man of spirit, however driven in self-defence, would have resorted to.

That reporter's answer to this, as to Dr. Hall's other statements, is conclusive. He affirms that, directly or indirectly, Dr. H. sought the report of his lectures in the Medi-CAL TIMES, unasked, gave him a card to the lectures, invited, courted, welcomed the revision of the lectures-declared, when he saw the first, that it was "word for word," and read it before the reporter in his own parlour saying page after page "there is nothing to correct in that;" and he further asseverates, that Dr. Hall at every interview was expherant in his expressions of anxiety to serve the editor of the MEDICAL TIMES, and felicitated himself that he had now an opportunity of making what he called "an atonement for his past inactivity." If Dr. Hall, therefore, be not —as universal report has it—fatally compromised to the Lancet by the reviewship of his own books, none but himself can understand or explain the excito-motor principle of his recent letter to you-a letter which, whatever may be thought of the originality of his physiological theories, puts that of his civic practices far, very far, beyond dispute.

Replies, sir, always require more space than charges, which are often mischevious in proportion to their unspecific brevity; but'l trust you will overlook the length to which my observations have extended in pity for an unfortunate brother editor involved bongré, malgre in a contention with a person in whom the very genius of professional squabbles

tancons arrangement with the reporter, first singular fatality, can have no dealings either view, and protected from himself, in some with his contemporaries or predecessors in medical science save to their loss. Appending to this statement, the explanatory observations of my much esteemed collaborateur, Mr. Piers Healey, the barrister, and of Mr. Gregory, the reporter engaged in the case,

Lam, Sir, Your obedient Servant, The Editor of the "Medical Times." | CORRESPONDENCE WITH MR. WAKLEY.

Note from Mr. Healey.

My Dear -

I am too happy to have an opportunity of expressing my entire concurrence, not only in your statement of facts, but in every sentiment you have expressed in reference to them. If Dr. Hall, after your expose, which I now very willingly make my own, do not lose caste - if that misfortune still await him-1 shall have an humbler opinion of the heads of your noble profession, than anything in their past history warrants.

Believe me, my dear ----, Very faithfully yours, T. PIERS HEALEY.

Essen Street, Dec. 17th.

Reporter'r Note.

16, St. Janus -st., Clerkenwell.

Sir,-Having read year note to the editor of the Medical Gazette, I conscientionsly testify that all therein related, with regard to myself and my interviews with Dr. Hall, is true to the letter. And, in contradiction to Dr, Hall's statement, which to my own knowledge contains but one assertion which is not cither a falsity or a mutilated truth, I pledge my character as a short-hand-writer of nine years' experience to the entire correctness of my reports of the lectures, now in course of publication in the Medical Times.

I am. Sir.

Your obedient Servant, H. Gregory.

Where-we are tempted to enquirewhere did this modest, truthful, honograble, gentlenently exemplification of the want of worth--this Fellow of the College he abused-where did he learn his peculiar, his very peculiar manners and morals? The confidential medical advisor of the discharged footman, the journeyman joiner, and the broken-down clerk, who formed the respectable Direction of the West Middlesex Insurance Company - the consulting physician to this low-lived gang of obvious swindlers—was he a master or a scholar in their promising school? Did he learn, or teach, there, those elevated practices which give him, in a profession marked by all kinds of anomalics, a circle of distinction so peculiarly his own? We should have concluded in asking, if no amount of newspaper exposure-no magnitude of general snubbing-no extent of enforced isolation -no severity of repeated horsewhippingcould shame or terrify the "Fellow" into common decency, common sense, common honesty; but remembering that at once atoning and explanatory cause—his useful monomania of the Reflex Functions-we exclaim,-Alas! poor man! would that he had some friend left-some strangers'charity yet unalienated—that, now, that he has told what he has picked up on the Nervous friendly asylum, where, enjoying the novelty of innocuous repose, he might feel the benefit of that moral restraint, the object of so many of his prescient laudations, and the highest fortune that can now await

In reference to the reply sent, as before mentioned to the Lancet, we have had the following correspondence with Mr. Wakley.

(No. 1.)

Mr. Wakley has to-day received a communication, without date or address, signed "the Editor of the MEDICAL TIMES," and accompanied by two notes, signed T. Piers Healey, and H. Gregory. If the author of the communication will append his name and address to it, Mr. Wakley will insert the letter and notes in the next number of the Lancet, to the editor of which journal the communication is addressed.

35, Bedford Square,

Dec. 19, 1842.

 $(N_0, 2.)$

Medical Times Office, Dec. 19, 1842.

The editor of the MEDICAL TIMES, happy to find that nothing but proof of the genuineness of his letter delivered this morning to Mr. Wakley is required, to insure its insertion "in the next number of the Lancet," hastens to enclose a document which will remove every doubt on that subject. The absent date should be Dec. 17, the address Medical Times office.

ENCLOSURE.

Sir,-I beg to give you my personal assurance that the letter delivered to you this day, and referred to in your note of the same date, is the genuine letter of the editor of the MEDICAL TIMES, and further, that the letter signed II. Gregory is a copy of one written by the reporter of the MEDICAL TIMES, as that agned T. Piers Healey is a veritable copy of one written by myself. I moreover offer myself as personally responsible for the truth of every statement in the said letter of the editor of the Medical Times.

I have the honour to be Sir. Your obedient servant, (Signed) T. PIERS HEALLY.

Esser Street, Dec. 19th.

(No. 3.)

" The editor of the Medical Times" cannot fail to perceive that he has not complied with the request contained in the note of the editor of the Larcet, dated vesterday, namely, that he would authenticate with his name the communication to which reference was made by the editor of the Lance t.

35, Bedford Square, Dec. 20, 1842.

(No. 4.)

The editor of the MEDICAL TIMES is at a loss to know why he should confide his name to Mr. Wakley's keeping, when that "authen. ticity" Mr. Wakley seems anxious for, has been placed beyond all doubt by Messrs. Healey and Gregory's attesting the accuracy of the communication with their names; and by the former gentleman's honoring Mr. Wakley with the assurance, that he took upon himself the responsibility of all the statements and opinions expressed therein by the editor of the Мирисль Темия.

The communication being evidently from Mr. Wakley's offer of insertion, not unsuited for publication in the Lancet, there being-as seems to be incarnate-who, as if under some | System, he might be shrouded from public | may be presumed from the same offer- and

which indeed is clear on the face of the communication, a claim in justice, and "honest English fair play" for its insertion -"the authenticity, also, which was asked, being" fornished, backed moreover, by what was musked. the personal responsibility for every statement, of a highly respectable member of a learned profession; the editor of the Mudical Times cannot explain why anything clse-save under a misunderstanding-cun be asked except in the supposition, that Mr. Wakley has been diplomatizing to escape with some grace an act of common justice and 'honest English fair play," by demanding as a preliminary what he felt was unnecessary, and knew would not be conceded

If not favoured with a satisfactory reply in the course of to-morrow, the editor of the Medical Times will feel it necessary to insert this correspondence in the next number of that Journal.

Medical Times Office, December 20th, 1842.

SPASMODIC STRICTURE OF URETHRA. RETENTION OF URINE, AND PUNCTURE OF THE BLADDER ABOVE THE PUBES.

> By W. SMITH, longers. (For the ! Million Times!)

PRIVATE ROBERT MITCHELL, hospital corps, British auxiliary legion, at St. Sebastian, after indulging a little too freely with liquor on the forenoon of the 5th of May 1837, was seized with symptoms of retention of nrine in the evening. These at first, however, gave him little trouble, as he had been subject during these last few years, on occasional and similar debauches, to similar attacks. During these attacks, he stated that it had been fre quently attempted to pass the catheter, but uniformly without success; and under these circumstances, the effects of the spasm had always been subdued, and a discharge of urine produced by fomentation or the warm bath. As these means had not even always been necessary—the bladder having not unfrequently after considerable distention evacuated itcontents with more or less difficulty at a longer or shorter period-the patient, who was himself at this time an orderly in the hospital of St. Telmo, made no application to the orderly medical officer during the night, nor until the visiting hour next morning, when he was seen by Surgeon Docker and myself, as he was attached to the same department of hospital in which we were engaged.

Fomentations were now assiduously applied to the abdomen, from nine till half-past ten a. m. without any relief. The pain from distention of the bladder was becoming more and more severe, and the anxiety and restlessness of the patient increased in the most remarkable manner; whilst the tension of the abdomen and swelling of the pubic region continued to angment more and more. was now bled to the extent of Ibi., which produced partial syncope, but even after the lapse of half an hour was followed with no beneficial effect whatever upon the stricture. At halfpast eleven three grains of opium were administered, and at midday, warm fomentations to the pubic region were reapplied, and continued for two hours, with similar ineffectual results as before. I now reported the case to Mr. Alcock, the deputy inspector general of hospitals. During the progress of the above treatment, I had frequently attempted to pass

sized bougie unsuccessfully. Surgeon Wilkinson was now ordered to superintend the treatment of the case, and we jointly agreed to place the patient imminediately in the warm bath. Before placing him into the bath, we administered — antim. potassio-tart, gr. ii., solut, murph, acetatis, B xxx. He remained in the bath one full hour, and was taken out at the end of that time in a complete state of insensibility. Every muscle of the body was apparently in a state of passive relaxation; yet the patient, either by nature or art, bad hitherto been unable to pass a single drop of urine. The flaccid state of the muscular system, and the enlarged size of the abdomen, thim again at ten o'clock. I was then informed now equally distended from the ensiform cartilage to the pubes, caused the patient much more to resemble a woman in the ninth month of utero gestation, than a man afflicted with simple retention of urine, arising from spasmodic stricture of the urethra. The swelling of the abdomen had apparently increased a hundred per cent., during his stay in the warm bath: but the apparent enlargement was, no doubt, owing more to the passive state of the museular system than to the augmentation of the quantity of urine, which the kidness would be able to have secreted in one short hour. The pulse when taken out of the bath was small, wirey, and trembling, and it munbered, on examination, one hundred and thirty in a minute. In this state of matters, all chance of saying the patient by medical means now secured at an end; and as the necessity of puncturing the bladder at one point or other cemed inevitable, it again became our duty to re-report the case as it now presented itself, to Mr. Alcock, who was still upon the premises. On relating the facts as above, Mr. Alecek re-visited the word, and immediately determined on puncturing the bladder above the pubes.

The patient was still lying on his bed in a state of insensibility, and as it was now about four p. m., he had passed no urine for a period of about twenty-eight hours. Mr. Alcock, with a small sized trocar, pierced the parietes of the al-domen in the centre of the linea alba, immediately above the pubes, and penetrated the bladder. On withdrawing the trocar, five pints of mine were drawn off by means of the cannula, of a clear aqueous appear ance and the distention of the abdomen soon receded to its normal state. After thus evacuating the contents of the bladder, the cannula was immediately withdrawn, and the wound closed with adhesive plaister; neither was it deemed accessary to try to pass a catheter through the urethra into the bladder.

During the operation, which Mr. Alcock performed in the most dexterous manner, the patient was as insensible to pain and the influence of external objects as if he had been under the influence of mesmerism. Ten minutes after the bladder was emptied, he began to talk incoherently and toss his extremities in the most frantic manner in all directions. In a few minutes more he became completely convulsed; his countenance assuming the most daring and furious appearance, whilst he swore most heartily. The ferocity of the countenance, however, after twelve or tifteen minutes, gradually relaxed into a mild sympathetic appearance; and the convulsions terminated in involuntary discharge of faces. It has been truly said that pleasure and pain are relative terms, and that without the occasional visitations of the one, we should both metallic and clastic gum catheters of beill able to appreciate the transcendent felici- It is sold at Cologne under the name of various sizes, without being able to reach the ties of the other. In the full period of my Pondre d' Italie, and has been shown, by

the case, tried the introduction of the smallest 'this more completely exemplified than I did in this case. No sooner had consciousness returned, than the patient expressed himself as then enjoying the happiest period of his existence, stating his feelings to be equal to all the enjoyments of heaven, at the same time that he thanked us a thousand times with genuine sincerity, and said we had relieved him from the cruclest torments of hell, This felicity, however, at the maximum, became less and less appreciable, and gradually subsided noto what may be termed the truly comfortable, until about seven in the evening, when he fell asleep.

Having given the necessary directions, he was left to the enjoyment of repose, and I saw that he had slept calmly for three hours. He awoke whilst I was standing by his bed, and I found him perfectly collected, without pain on pressing the abdomen, with moist skin, pulse weak and wirey, numbering one hundred a minute. He had had no passage, from a laxative glyster, exhibit d before seven o'clock, and I administered immediately, for the purpose of acting on the intestinal canal, of recini Siss. I now left him, and ordered,-R. antim. potassio-tart, ge. 10; mag. sulph. 5ii.; aqua tent. 5viii.; misce et solve, sumat æger coclilea. mag. quaque hora per noctem.

May 7th, 1 A.M.—Has had since I saw him last one copious stool.

7 A.M.-Has had another copious stool; and about one hour ago had made water per urethram to the quantity of 5xii., felt during the passage of the prime a little scalding in the course of the nrethra, and slight pain over the public region, which gradually became imporeciable, after a lapse of afteen minutes. Skin moist, tongue clean, no pain on pressure of the abdomen, pulse one hundred and ten, hard and small, but has passed on the whole a good night, and slept well. I now performed venesection to the quantity of 5xii., and during the operation the pulse fell to ninety, becoming at the same time more soft and natural. The same saline solution I ordered to be continued, notwithstanding that he had a little retching once or twice during the night from the effects of the medicine.

6 P.M - Has had two stools during the day, tongue clean, abdomen free from pain, pulse one hundred, but soft.

May 8, 10 A. M .- Pulse eighty, of healthy character, tongue clean, skin moist, makes water naturally when required, but the scalding of the arethra continues on passing urine .--Continue as before.

May 9th, 10 A.M.—Symptoms favourable, pulse seventy-live, continue saline medicine every fourth hour

May 10th, 10 A.M .- Pulse sixty, functions natural. Remit medicine altogether.

May 13th.-Mitchell is now able to work today in the hospital square with the other convalescents.

May 16th.-Continues doing well, the wound in the abdomen not yet cicatrized, but has no inconvenience from it, never passed any urine by it

May 20th .-- Wound of the abdomen healed, and the patient fully recovered.

Injurious Dyn for the Hair .- Dr. A. Th. Bruck, of Osnabruck, thinks that a violent ophthalmia, under which a lady of 40 was labouring, might be attributed to a dye which she had used during several years for her hair. bladder; and Mr. Alcock, on examining professional life I have never seen the truth of chemical analysis, to consist of lead and lime.

EXTRACTS FROM FOREIGN JOURNALS.

(From the Berlin, Medicinische Zeitung, for the 'Me heal fimes

GERMAN.-Epidemic Scarlatina, in the Cirele of Pillkallen, in the years 1811-12 .- (Dr. Asmus.)-From July, 1841, until the middle of the winter of 1842, searlet fever reigned in the above circle in a very strange manner. It was mild on its first commencement-children ran the streets with sore throats and eruptions, without being aware of the fearful disease which had visited them: the disease was often confined to a slight sore throat of an hour's continuance, and no one had perceived its nature, had it not been followed by dropsy or furfuraceous exfoliations. After having observed with attention many hundred eases in several epidemies, I agree with most physicians, that the searlet eruption is an essential symptom of scarlatina in the greater number of cases, but I cannot entirely allow that it is always so. Some very anxious patients, who considered a trifling and almost momentary difficulty of swallowing of sufficient importance to consult a physician, being advised carefully to observe their skins, they perceived as well as myself only the slightest redness and the conception that searlet eruption was present, only for an hour, appears to me too arbitrary. In such cases, if an abundant dinresis did not occur as a means of prevention, dropsy as a rule used to follow; and one might, with the highest probability, foretell that leucophlegmatic affections would follow where the eruption appeared but lightly, when otherwise the fever was of any significance.

These mild symptoms in a large number of sick maintained themselves only a short time, and even during this not throughout: here and there, swelling of the tonsils occurred so violently, that it was necessary, in pressing cases, even almost daily, to make deep incisions in the swollen velum and posterior wall of the throat, to prevent suffocation. Now, also, slight symptoms of eneephalitis showed themselves, and very young children died after parotitis had devolped itself. This appears to have taken the place of scarlatina in children, for a few weeks or even months; for where a whole family suffered from searlet fever, the youngest children, as a rule, fell victims to

After four weeks, scarlatina continued no longer to disguise its proper symptoms. The eruptive fever became more lively, and symptoms of encephalitis occurred more frequently. Gastric mixed affections were seldom remarked, and in any very apparent gastritte devolopment if any one thought it right to administer an emetic to allay any gastritic symptom, he quickly regretted it, on account of its effects on the brain; so that after an unfavourable experience of the employment of vomits, 1 abstained from their use during the whole course of the epidemie. This disposition to inflammatory affection of the brain, in the course of this disease, was so great, and all that produced congestion in the head so injurious, that I must deplore having given an emetic in a case of membraneous cynanche. It was a child three years old, which, in my morning visit, after having left it the evening before in a very satisfactory situation, a very cold north-east wind had blown and I found a membraneous exnanche developed. The cough had, according to his parents, commenced about nudnight. An emetic now administered did not operate- great anxiety came on-the child became delirious-his reddened eyes almost started from his head-strabismus and convulsions supervened-and the child did not survive the emetic four hours.

After eight weeks the occurring cases were in part newly distinguished by the angina, and these were the most favorable, or the first symptom of scarlatina was sickness, with the perfeet possession of the intellect; pain of the head was not long absent, and quickly accompanied with delirium; for the most part (with reddened eyes, outward strabismus, and very contracted jupil) the eruption effloresced; that in very bad cases appeared equally in the first hours of the disease; and with the formation of the scarlet eruption on the skin, to the most intense and extensive scarlet redness, the inflammation of the brain rapidly increased. As the sudden disappearance of the eruption was of great importance, so could one not rejoice upon its continuance: it often remained completely developed until death.—Where medicine did not affect any good, the children died during the height of inflammation, before the symptoms caused by effusion on the brain had made their appearance; I saw effusions only twice in the course of the epidemic.

After a few weeks, although the disease was less frequent, yet it showed itself the more malignant. A sore throat was now a wishedfor symptom; every case commenced with cephalitic irritation, which quickly increased to delirium. Should help not be quickly given in this space of time, the persons attacked died immediately. Dropsy after scarlatina, appeared throughout the country. This infectious disease was spread more by the elergy and teachers than from natural causes, in spite of me. Dropsy of the cavities of the brain frequently occurred, and I must most determinately distinguish these from exudation arising during inflammation of the brain. This disease which till now was new to me, appeared in the following manner:-Those individuals affected with irritation of the brain, recovered apparently, got up, felt themselves well, and took their food with appetite; they frequently took cold which, in some cases observed by me, they had anxiously avoided. After five, six, fourteen, or more days, the eyelids first began to swell; they (the sick) had a swollen appearance—slight delirium occurred, but at intervals, and the sickness which had been so long overcome again showed itself. The patients vet went about, did not totter, but felt themselves only very faint; after some time the swelling at length spread itself over the limbs. Delitium and sickness then increased much, and the patients were anxious to remain in bed, because they could not keep up from weakness. Some of the senses were wanting, more especially the sight, with the intellect undisturbed, if the intercurrent phantasies are not considered. If the patient were asked any question, he answered sensibly, but looked in another direction than that from which the question came: one of my patients, a boy of about twelve years of age, answered to my question, "I see nothing at all, but I hear. The patient died with epileptic or eklamptic fits, after the thread-like pulse had long before become imperceptible. One of these cases presented to me an interesting example of the aura epileptica, and epileptic fits with complete possession of the faculties, although the cause of the spasms lay manifestly in the brain (I will not pronounce the spinal marrow at the same time free from effusion). He had epileptic attacks twelve or sixteen times in the twenty-four hours. Its commencement was announced by a creeping in the points of the fingers, which spread by degrees, and terminated in convulsions, from which followed conyulsions in other parts of the body, and at length of the whole body, including the muscles of the face; no one who saw the spasms could ditionally, and without fear of contradiction,

distinguish them from ordinary epileptic spasms. The patient, a boy of fourteen, had his perfect recollection, and suffered fearfully; he regularly bellowed, and described the spasmodic pain of the muscles as unbearable, so that an unspeakable anguish came on with the aura, before the spasmodic sufferings again returned. I waited for another attack, and as the aura began to appear, I squeezed the wrists powerfully; the convulsions propagated themselves no farther, and the joy to have found the means of preventing such painful spasms was indescribable, not only in the sufferer, but in the bystanders. Epileptic spasms with perfect recollection without the aura, were lately very frequently observed by me. This was a very evil consequence of searlet fever; for external remedies even blisters applied to the scalp were fruitless. I am unspeakably sorry that I had not employed opium earlier, of which as restraining the secretion of urine, I had ungrounded fear; as many young lives were preserved by it, which must have died in a lamentable manner. Later I employed diuretic remedies-ealomel, digitalis, squills, &c; the combination agreed with the stomach, and was always beneficial; at least no more of my patients died.

The elder patients who were attacked, finetuated to about forty years of age. New born children and those of a few weeks old, were seldom attacked; when they were, they frequently died with swollen parotids, without marked eruptions. However, the eruption was not without examples in new born chiltren. One ease occurred to me, which furnished a proof that searlatina, like small pox, can attack the feetus in utero. A woman who had already brought forth four children, lost two of her children when she believed she was near her fifth pregnancy. The delivery followed six weeks after the legitimate term, as fixed by her, and she bore a very deformed, badly-nourished child, which showed no signs of (portus scratinus) protracted birth; the entire epidermis from head to foot, came off in great patches-that of the hands might have been drawn off like a glove. It was many weeks before the skin, afterwards sown over with pustules, became normal, the child grew moderately, and became quite sound. mother, at. 36, had neither sore throat, nor otherwise any symptom of searlatina, but immediately after delivery, she became hydropie, and recovered by the use of carbonate of ammonia.

As regards the general treatment, leaches, calomel, cold applications to the head, and effusions over the whole body, were the chief means used, and as I have nothing new to communicate, I therefore confine myself to this sketch. I lament that I cannot, from the circle of this year's epidemie, and my collected experience on it, say a word for the carbonate of ammonia, after all the praise which has been bestowed on it by the German, North American, and English physicians. So much as it has been recommended in brain irritation it rendered me no good service, and where it appeared to have been of some benefit, it remains doubtful whether the same end would not have been obtained even without the employment of every medical means. Even in considerable febrile condition, where local considerations did not require any other medicament, as long as the brain remained free, I resolved to the use of cool treatment, without any other medicament. But in one affection, consequent to searlet fever, and which hitherto has been the terror of the physician, and where only to my knowledge the ammonia can be praised, I can uneonrecommend it, namely, in the dropsy following scarlet fever, with exception of that of the brain. Neither calomel nor digitalis, squills, or cream of tartar, or the host of other diureties, ean here render that service which the earbonate of ammonia is able to perform, as two drachms to six ounces of water. The carb, of ammonia operates specifically in the dropsy from scarlat na, and in the most desperate cases, where effusion into the chest is not to be mistaken, it even causes recovery, whilst it, like no other medicine, produces activity in the urinary secretion, and thus in a few days causes a decrease of the effusion. Therefore all thanks to the recommender of this distinguished remedy, and I finally remark that I am not inclined to contradict its good effects in the first stages, when any other epidemic is less disposed to inflammation of the brain than this, which now for months has offered itself to my observation.

MEDICAL EDUCATION.

To the Editor of the 'MEDICAR TIMES.'

SIR,-I perceive, from your journal of the 10th instant, that the subject of medical education has been occupying the attention of the government, and that it is about to be introduced to the notice of the public in the Medical Times.

If Sir J. Graham really does desire to improve the condition of the profession in this country, the means are simple enough. He has only to adopt the same system as that adopted on the continent,—namely, the "concours." This is the only system which can award to industry and

talent its just recompense.

Supposing some great work, which required the individuals occupied in it to be possessed of no other qualification than their superior corporeal force, was necessary to be accomplished, and that many more persons than were necessary, presented themselves as candidates for the employment,what would common sense dictate as the only effectual means of determining upon the most eligible candidates? The answer to this question would be, that the strength of each person must be proved, and that they who possess most ought to be chosen. Any other means than this would not only be considered ineffectual, but unjust Now, as knowledge is power, ought not precisely the same plan to be employed in the selection of individuals to fill those situations in the profession which require the best abilities and the greatest Certainly Sir J. Graham, and every other disinterested man would answer in the affirmative. Another question is, are such means employed in choosing dressers, professors, &c.&c.? On the Continent they are, but in England they are not; and hence we are so much behind our Continental brethren, and justly the subject of their ridicule.

As I have not time to enter into this subject fully, I will make only one comparison between the Continental and English method of election. Those young men who perform some of the minor operations in the hospitals, and execute the orders of the surgeons, are called dressers in the English hospitals, and interns in the French ones.

The interns are chosen from the pupils by public examination, which are so conducted that none but the most intelligent and best informed young men can possibly obtain such situations; they are afterwards, I believe, allowed a small gratuity whilst they remain in the hospital and have their education free of expense. Every year they are re-examined, and receive a preferment according to their superiority. Englishman who has visited the Continent knows how much these interns are esteemed in their profession, and after they quit the hospitals, their position of intern entitles them to general respect. Now for the dressers; they obtain their situation merely by paying for it. No account is taken of their anatomical or surgical qualification; so that, if any one should be deficient in this respect, so botanist is enabled, with the assistance of the first great truth which tese investigations

much more is received by the surgeon for introducing a young man into the hospital, to torture and ill-treat the patients,-or, in other words, the charitable object of the institution is sacrificed to the private gain of the surgeon. man, in order to have some equivalent for the additie sum of money which his father has paid for him, receives from the surgeon a certificate of his position as dresser; and hence the same irrational means of gaining admission to sick people, which commenced its cruel operation upon the inmates of the hospital, will afterwards extend its, baneful influence to all those who are imposed upon by a certificate which has been obtained merely by money.

The same evil exists in the selection of all medical officers, and it is evident that the bad effects of this evil will be increased in proportion to the elevation of the individual who has been

thus recommended to the world.

The object of this letter is merely to excite enquiry, for I prefer that those who are employed in legislation for the profession would doubt the truth of my statements and examine and compare for themselves. As in the exact sciences, so in the science of legislation; we can have no truth without searching for it, and that person will generally obtain most, whose search is most diligent and unfettered by partiality, interest or prejudice.

VERITAS.

PERISCOPE OF THE WEEK.

Test for the Adulteration of Æthe-REAL OILS WITH ALCOHOL.—The best method of testing, according to Borsarelli, is with chloride of calcium Perfectly dry chloride of ealeium dissolves in oils containing alcohol, and forms a liquid stratum at the bottom of the vessel; when but little alcohol has been mixed with them, the pieces change, at least their form, but in pure oils the chloride of calcium remains perfectly unaltered. This has been confirmed by Brande on oil of lemons.—

QUESNEVILLE'S FERRUGINOUS EFFERVES-CING POWDERS .- Under the name of " pondre pour can gazeuse ferrie,"Quesneville sells a powder, of which 16 grammes are placed in a vessel full of water, which is then well corked until the whole has dissolved. It may be taken as a chalvheate. Quesneville states the powder to consist of 4 draclims sugar, 1 dr. hicitrate of soda. 18 grs. bicarbonate of soda, and 18 grs. double citrate of iron and soda. Breton found it impossible to obtain thealt ter double salt in a fit state for pulverization, and therefore submitted the powder to a more careful examination. He attempted to separate the constituents mechanically, and in this way obtained colourless acid grains, which proved to be tartaric acid, particles of bicarbonate of soda, and a small quantity of transparent pale green granules, which proved to be the protosulphate of iron. In a quantitative analysis, in which the tartaric acid was determined as a lead salt, the iron as oxide, the soda as sulphate, and the loss accounted for as sugar, Breton found Quesneville's powder to consist of 20 parts bicarbonate of soda, 223 tart, acid, I part green vitriol, and 56½ sugar; there is, therefore, an excess of tartaric acid. Water prepared with the powder made according to the above prescription, had quite the taste of Quesneville's. The biearbonate of soda and the tartaric acid must not be powdered finely, otherwise they act on each other even in the state of powder.

THE MICROSCOPE'S USE IN ANIMAL AND VEGETABLE Physiology.—By selecting says Mr. Grainger, some of the more simple or cellular plants, where the typical structure is displayed unobscured by the addition of parts

microscope, to demonstrate that tendency to the spiral disposition of the component parts, which so strongly pervades the vegetable kingdom. If, for example, we examine the different species of confervae, it will be seen that the organic corpuscles are deposited in spirals -A process evidently of the same kind was noticed by Schleiden, and has since been pointed out by Mr. E. Quekett, in the development of the vascular tissue of the higher plants. The latter observer has ascertained that the membranons tube which precedes the vascular tissue becomes charged with innumerable grannles, which, after a short time, begin to adhere to the inner surface of the tube, assunning a spiral direction or form, and thus lay the foundation, as it were, for the vascular tissue. Again, if we watch the circulation of the chara, which, as a microscopic object, almost rivals in interest the circulation of the blood, something of the same kind is noticeable; that is to say, the little globules which indicate the currents going on in each cell of this plant, follow in the larger cells a definite spiral direction, so that while the globules describe curved currents, there are intervals, called by Dutrochet lines of repose, where no motion takes place. In these instances we have an opportunity of perceiving, in its simplest but most evident manifestation, that spiral form which is so eminently displayed in the whole vegetable kingdom.-And here I would remark, that one of the most important principles established by modern research is, that the anatomist, in determining the fundamental character of any organ, must seek for it in the lower forms of organic beings, where the typical structure is displayed in all its simplicity .-Another important addition to vegetable anatomy was the discovery, by Schultz, of the vessels by which the circulation of the elaborated sap, or latex, is accomplished. Previous to these researches nothing could be more unsatisfactory than our knowledge respecting the channel by which that fluid which is to the plant what the arterial blood is to the animal, was carried to the organs which it is designed to nourish. The existence and action of these vital vessels, as they were called by Schultz, have been almost universally admitted; there are, however, some careful microscopic observers who have not been able to satisfy themselves that a true circulation does, in reality, go on in the vessels we are describing. One gentleman possessing a very superior instrument, has repeatedly sought for the currents described, but so long as his observation was confined to the living plant in an unmntilated condition, no motion could be seen; but on making an incision, movements, which were attributed to the escape of the fluids, were observed. Without dwelling further on this point, I would only remark, what is familiar to many who are present, that motions are occasionally seen in fluids which have been mistaken forvital phenomena, although they, in reality depend on physical causes, such as those sen in the red particles when a drop of blood is placed in the field of the microscope, on in the capillary vessels of the frog's foot when seered from the body. -I have now to allude to a series of investigations which have thrown anew and unexpected light on some of the most inportant laws which regulate the growth or fomation of organized structures. I refer to the natomy and physiology of cells. Although so much has been written upon this subject, brief notice of the discoveries of Schleiden and Schwann may,

have revealed is, that although nature displays great merit of fixing the attention of physioloinfinite variety in the secondary formations of animals and vegetables, yet that in the primany development of the several organs, one form alone, that of a nucleated cell, is ob-sincrease almost ad infinitum. It is this served. The mode of origin of this primordial cell appears to be as follows: the minute granules existing in the primitive plastic, but thologist, as it is calculated to explain many as yet unformed substance, aggregate together, and so form a small and unsually dis-shaped hody, which, being the rudiment or origin of the future cell, was called by Schleiden the cutoblast or cell-germ, though the term of nucleus, first given to this body by our distinguished countrymen, Dr. Robert Brown, is germinal vesicle, or, from its discoverer, till very generally retained. According to the vesicle of Purkinje. The admirable tinguished countryman, Dr. Robert Brown, is Schleiden, it is doubtful if the evtoblact is in reality the trac germ of the cell; for he remarks, that in the cytoblast itself a minute sharply-defined object, presenting the appearance of a thick ring, or thick-walled hollow globule, is observed, which, forming even earlier than the nucleus is called the um keolus. From the surface of the cyto-blast there rises subsequently a thin transparent vesicle; and this it is which constitutes the walls of the cell. The cele-brated German anatomist. Schwann, has demonstrated that the same identical phenomena which thus occur in the vegetable are also exhibited in the animal kingdom; and thus we learn, that whether a corpuscle of blood, a filme of muscle, a filament of nerve, or a vessel, is destined to be formed, the foundation of each is a cell containing a nucleus, which, undergoing a series of transformations, may be uttimat ly converted first into a tube and then into a fibre. This is a brief account of one of the most brilliant discoveries which, perhaps, has ever been made in connexion with the science of organization. The great principles it establishes respecting the formation of animal and vegetable tissues have been universally adopted, although some modifications, and those not unimportant ones, have been introduced by other observers into the theory as originally announced by Schleiden and Schwinn. Those physiologists supposed that the nucleus or cytoblast, having performed what they conceived to be its specific office the formation, namely, of the cell-was east off as us dess, and absorbel. Further inquiries, both in Germany and Ungland, have shown, however, that the micleus is a much more important organ than was originally imagined. Thus Resenthal contends that the nuclei serve to the reproduction of the organ tissues, by becoming elongated into fibres; and Reichert. although he condemns this theory as hypothetical, conceives that Resenthal's inquiries have shown that the nucleus does not disappear in the manner stated by Schwann. It is, however, in this country specially, that the importance of the cytobast has been shown by Dr. Martin Barry. This distinguished observer contends, that a stead of being removed after having formed the parent cell, the nucleus becomes the source o'new cells; and as it is capable of dividing or multiplying itself, and of thus giving origin to objects' endowed with the same properties is itself, the nucleus possesses in this kind o'vegetative growth an almost illimitable poter of increase. Without entering into the meits of this question, I may be allowed to poit out, that although the power possessed bythe primary cells, and by the tubes proceedig from them, of absorbing new matter and deositing this in their interior, was known to chleiden and Schwann, as. for instance, in theformation of the spiral versel of the plant, ad of the muscular fibre in the animal: yet o Dr. Barry belongs the

gists on one of the most important points connected with the history of cells, the independent power, namely, in virtue of which they may endowment which is more particularly interesting to the physiologist, and to the paof the phenomena connected with nutrition and secretion, as well as the growth of carcinomatous and other tumours. Strange as it may appear, the new being or embryo, like all its individual parts, springs from a cell, or, more cor. silv, from its nucleus, called the investigations of Dr. Barry, have established, among so many other valuable results. the fact that by a process precisely the same as that described as taking place in the nucleus of the cell, the minute object discovered by Wagner, and called the germinal spot, gives origin to incipient cells, which fill the wholeof the interior of the germinal vesicles. Ultimately two of these cells enlarging constitute the true germ, and then each giving origin to two other cells, the number becomes 4, 8, and so on, increasing in the ratio of geometrical progression.

Rubeola. - The cause of rubeola, says Mr. Wilson, is a special contagion, probably originating in the association of a number of individuals under hygienic conditions unfavorable to health, and propagated to the present hour by generation of the morbid poison in the systom of those affected by the disease. Like other contagions it is neutralized, or rendered active, by states of the atmosphere, being increased by cold and dampness of the atmosphere, and diminished by the opposite conditions, heat and dryness. Measles prevail consequently during the autumnal, winter, and spring months of the year, and principally in the former and latter, the dryness of the atmosphere which accompanies the sharp frosts of winter being unfavourable to its transmission. Certain states of the system are favourable to the didusion of rubeola, as, for example, the presence of inflammation of the nucous membrane of the air-passages; indeed, cathrib or cough may be regarded as indicating a morbillous constitution .- The infection of rubeala is a fact too well known to need any instances in proof, and the infecting distance would appear to be considerable. The period during which infection is possible is difficult to determine, but for the sake of security it is necessary to secunde the patient for at least three or tour weeks. It may be as well to remember also, that subjection to an attack of this fever affords only purtial accurity against its subsequent invasion: persons have suffered from measles as many as three or four times, and have still remained liable to its attack. The infectious nature of the fever is also exhibited in its epidemic prevalence.

The contagion of rubcola has been put to experimental proof by inoculating a sound person with the blood or fluids of the discard. Dr. Home, Cullen, Speranza, and others, succeeded in producing an attack of measles in this manner, by inoculating with thool: Dr. M are effected the same object by means of the tears and saliva; and Wiflan remark - that the incentation of the fluid of some accidental vesicles developed on the skin during rubcola communicated the disease, and was the means or transmitting it, subsequently, by intection to seve alother children. After incenlation the symptoms of the fever make their appearance in the course of a few days. At one time it was thought that the symptoms of

sporadic form, and it was proposed to employ inoculation, as in small-pox, for the purpose of inducing a mitigated affection. The results of the experiments in the above cases were not, however, favourable to this opinion, and all expectation of benefit from such a mode of procedure has been relinquished.

ON MARTICO AS A STYPTIC.—The mattico (says Dr. W. Musro,) has been very often used by me in the Dundee Infirmary, as an external styptic; but I have not as yet used it internally. It has been very often used to stop the bleeding from leech-bites, and uniformly with the most decided success. Leeches were applied, by his own desire, inside the nostrils, our house surgeon, a stout florid young man, with head symptoms in fever. The bleeding, which was profuse, could not be stopped by cold applications to the head, plugging, &c.; but the mastice, in leaf, applied over the bites, and pressed on with the point of the finger, proved immediately successful. The application of the leaf caused increased heat and throbbing for five minutes, when all unpleasant symptoms went off. The mattice was applied to a man with a wound of the right temple, in whom a considerable branch of the temporal artery had been divided; the wound was dressed, and a compress and bandage applied, but still the blood burst out. Cold water was several times had recourse to, still the bleeding returned after a while; at last the mattico was used. I stuffed the wound with the powder, but found that it was washed away from the wound in the vessel; I then pressed in several pieces of the leaves, holding them firmly or some time with the point of the finger; and the result was, that we had no more hiemorrhage. We had a somewhat similar case of a man with a wound of a branch of the palmer artery, which resisted graduated compression and bandages, and in which the mattice was used with the best

INTERNAL EMPLOYMENT OF NITRATE OF Silver.—Dr. Fisher, of Tambach, found fused nitrate of silver efficacious in cases of grastralgia aring from purely dynamic affections of the nerves of the stomach, especially in females .--He gives this salt in the dose of four or five milligrammes, either in pills or draught. He prescribed it without any advantage in the cases of gastralgia caused by hemorrhoidal diathesis, and become independent of the

INJECTIONS OF INTUSION OF CUBERS VA-GINITIS.- A woman, aged 28 years, was admitted to the Hopital de la Pitie, on the 5th of April, 1842, to be treated for intense methrovaginitis, which had lasted nine months, accompanied by violent pain and alundant flooding. This woman had been subjected to several modes of treatment, without success, From the time of her admission, she was sulimitted to injections, repeated six times a day. of 30 grammes of cubels in a quart of water. At the end of two days, the flooding had diminished, but the inflammation of the neether remaining, cubels were administered in the dose of 3 grammes every hour. On the 17th of April, the patient was completely cured; there was no longer either pain or flooding. Thus, in twelve days, one of the most rebellions of diseases, of nine months' standing, was cured. M. Piorry states, that he has, in numereus instances, very successfully employed cubebs in inflammation of the canal of the preter, or of the vagina. Setting out with the principle that cubels act only when put in contact with the diseased unions membrane, by the inoculated disease were milder than the means of the urine, when the uretur is affected or by means of injections, for the vagina, M, Piorry administers this medicine internally, or by way of injection, at very short intervals,

Appliteration of Tobacco, -- "Bengal safflower is preferred," says Mr. C. Watt in the Chemist, "at the price of twenty-eight shillings per cwt. It is infused in a weak solution of potassa or ammonia, the former giving a dark brown color resembling A Shag, and the latter a light brown, approaching in appearance to 'Returns.' Considerable loss, however, having occurred from the vegetable matter dissolved out, an improvement has lately been introduced; the safflower, having been moistened, is placed in trays in a cask, into which the ammoniacal gas is allowed to pass. By this process, the weight is increased, whereas, after the earlier methods of preparing it, a loss of one half was sustained. Having thus explained to Mr. Bremner the particulars of a process which, doubtless, he well knew before, I will add the price at which it has been sold, viz., Is, per lb., and I beg to enclose (in confidence) the name of the firm by whom the tobacconists have been supplied with this adulteration, one of whom, when the new Act was infroduced, pathetically exclaimed. 'Behold another fortune lost!' I am in possession of samples, and I know that orders for a ton were obtained in the course of a month, by a travel'er on his journey. In the case of the ammoniacal preparation, a ton would afford a profit of about £84.—Perhaps this will explain the ticketting of tobacco at 2s, 6d, per lb, the duty alone being above 3s. It may not be amiss to inform the public, that the substitutes for tobacco are always in shorter threads than gennine tobacco. The vegetable used for the adulteration of tobacco, are far too numerous to be mentioned here."

CHILBLAINS IN CHILDREN.-Dr. Stober, Professor to the Faculty of Medicine at Strasburg, employs when the chilblain is recent, of a deep red, and not ulcerated, cataplasms of linseed meal, or bread and water, surrounded with sugar of lead. The cataplasm is kept on all night; in the morning it is removed, bothing the foot in warm water. Under the influence of this very simple treatment, chilblains are often cured in three or four nights.—Where chilblains are old, and where ulceration is threatened, Dr. Stober bathes the affected parts with tincture of iodine once in every twenty-four hours, and that for several days in succession; or a similar unction may be made with a mixture of equal parts of dilute nitric acid, and distilled cinnamon water, applied ence a day with a feather .-

As regards ulcerated chilblains, Dr. Stobler, to hasten cicatrization, has recourse to stimulants, and, in preference to binoxide of mercury (red precipitate) incorporated with lead,

POMMADE FOR AFONIC ULCERS OF THE LEGS -R Dry Tannate of Lead, 30 gram.; Lard, 8 ditto-M. The pommade is spread on pledgets of cotton wadding, and is applied to the ulcers with them. - This medicine has succeeded where others have failed.

TESTIMONIAL.-A meeting was held by the students of the Charing Cross Medical College, on Saturday, the 17th inst., for the purpose of presenting to Edwin Canton, Esq., an elegant shuff box bearing the following inscription :- " Presented by the Students of Charing Cross Medical College to Edwin Canton, Esq., M. R. C. S., Demonstrator of Anatomy, as a testimony of their grateful sense of his unwearied exertions in the promotion of their studies."

ROYAL COLLEGE OF SURGEONS IN LONDON.

List of gentlemen admitted members on Friday, December 16th, 1842:-

M. Ward, F. J. Oshorne, C. P. Daniell, W. T. Edwards, W. S. Watson, A. Stephens, J. Hancock, P. Wallis, R. Baker, W. Milner, P. Benson, A. King, H. R. Daniell, T. W. Fothergill, F. Hawthorn,

Admitted Monday, Dec. 19th: -

H. Hadlow, G. Newstead, H. Carless, J. Lurg, T. Howell, J. C. Blanshard, T. Holman, J. P. Oates, H. W. Best, G. Pink, T. Lyle, F. B. Hunt, T. Good, R. Cammack.

ADVERTISEMENTS.

CHARLOTTE STREET SCHOOL OF MEDICINE.

THE SECOND DIVISION of the WINTER SESSION of LECTUREs will Commence Mondey, Jan. 9th.
Perpetual to Anatomical Lecture 5, Surgical Lecture 5, Denom tra-

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The prizes will be drawn on the 25th of April next, in the presence of a general meeting of absorbers,

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LONDON, SATURDAY, DECEMBER 31, 1812.

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COURSE OF LECTURES ON THE THEORY AND PRACTICE OF MEDICINE.

relivered by C. J. B. WILLIAMS, W.D., F.R.S., Professor of the Practice of Medicine, and of Chine d Medicine, at University College

Gentlemen.-Another class of agents, useful in slight inflammation are Deviratives, which act as we have before noticed by draining the blood from the vessels affected to other vessels at a distance from them. Thus in slight affections of the head, pedilavia are frequently beneficial—they cause determination to the feet, and thus relieve the head. The application of warm ponltices is also of service, because the heat which they maintain increases the passage of blood through the obstructed vessels. On the same principle fomentations are useful in some internal complaints, as peritonitis, -hot applications relieve the tension of the parts, and thus diminish the irritation. Exacutants act by drawing off the blood to other parts, by causing the actual removal of some of the fluids. Where nervous irritation is a leading feature, another series of remodies may be called into our assi tance, viz., counter-irritants, which differ from derivants, masmuch as the latter seem to act upon the vessels only, whereas the former act upon the nerves also; thus strong heat operates as a counterirritant -sinapisms, blisters, turpentine, &c., act in a similar way. These are chiefly for cases where there is great pain and little vascular exdyspepsia, &c. These remedies, however, must not be applied too early if much inflammation is present; nor yet much counter-irritation be applied too near to an inflamed part, or the mischief will only be increased. If they are adopted when there is great vascular excitement, influmnatory fever is very likely to be induced-blisters applied for two or three hours have an evacuant as well as rubefacient effect. Opium is sometimes effectual in putting a stop to inflammation by par dysing nervous agency, and thus destroying the influence it has in the production of the inflammatory pro-cess, and cuts off the connection between the local inflammation and the system. Narcotics, of which you know opium is the representative, should always be preceded by some degree of depletion, because this class of agents at first electes the action of the heart, and also tends to arrest the secretions. They should be combined with merenry, antimony, or ipecaenanha, because the tendency of these is to increase the secretions; opium is often useful in putting a stop to slight catarrhal inflammations; henbane, camphor, &c., are in most cases decidedly inferior to opium. When, in addition to local mischief there is inflammatory fever present, we have to treat the whole vascular system, and through it all the secretions. It is clear that mere local treatment can be of little avail, so long as the powerful vis a tergo is in operation. We must regard all the parts as in a state of high pressure, and the remedies to which I have been alluding would tend only to aggravate the symptoms, while the fever continues; for the local applications would act as irritants. Derivants can do little good-counter-irritants are hartful, of syncope; for I presume you are all aware that, depended upon alone; when there is much inflam-

and a reoties, also, because they cannot controll the action of the heart, but rather increase it. The first measure, then, in this case, must be to with-draw the stimulus of the blood, because it is the blood itself that stimulates; we must, therefore, bleed, and give such medicines as shall further relieve the vessels by augmenting the secretions, and by diminishing their tonicity; for these two purposes,—mercury and antimony appear to be entinently adapted. All these measures must be employed in proportion to the importance of the part affected, and in proportion to the amount of vascular fulness present. In some inflammations, such as parotitis and ton illitis, &c., resolution may be effected generally without the necessity of much depletion. Below the age of four years, the only way in which we can abstract blood safely is by leeches. Bloodletting is sure to produce an influence, if it is carried far enough -It is much more difficult to cause syncope in violent inflamneatory fever than in persons who are in porses sion of full health. There is, consequently, said to be a great "tolerance" of bloodletting in fever accompanying inflammation; the heart and arteries are able to lose a large quantity of blood, and yet continue to act as before. For example -a trong male, in good health may be able to be in without frinting, the loss of about sixteen onnees. while in cases of aente pleurisy or araclmitis, a patient may require the abstraction of from thirty. to forty ounces, to induce syncope; in pneumonia about thirty onnees may be borne; in bronchutis, erysipelas, &c., from sixteen upward ; and in congestive apoplexy upwards of feety onnees have been drawn; in cases of continued bever and and one to the tolerance of bloodletting is considerable di-minished. Our object in bleeding is to produce a lasting impression upon the inflammation, with the loss of a little blood as possible; in the early stage the vessels may regain their healthy state without any reaction occurring. In cases where we wish to produce a strong and decided effect, we must act upon the brain at the same time as the heart, and should, therefore, place the patient in the erect position, and bleed from a large orifice, or even from an oritice in each arm at once. We must continue the bleeding either until the pulse is softened or until some of the leading symptoms are relieved. If the disease is recent the sudden removal of the tension will probably be successful, and effect a cure. In mere nervous syncope the pulse speedily regain, its strongth. We may ask how general ideeding acts upon local inflammation? We reduce the action of the heart and also after the character of the blood; it diminishes the fibrin and red particles more than the serum. Haller observed, that as the blood was drawn from the whole system, the blood in the inflamed part began to flow more rapidly, and sometimes in an opposite direction. The alteration effected will be in proportion to the recent existence of the inflammation. The pressure is removed from the appressed vessels, and the evil thereby reduced. If, however, the local inflammation is extensive, and has involved the structure of the vescels, so that they will not easily recontract; it is not desirable to produce so rapid an impression, but a more slow and permanent one is to be attempted for when inflormation has existed for some hours, or where the habit of the patient is very plethoric, we must obtain more blood; and to effect this, we must bleed from a small orifice, and keep the body in an easy posture, so that no immediate impression may be produced upon the brain. In nervons subjects, the influence produced upon the heart by the brain is very rapid, so that if there is so much sthenic inflammation present as to require the abstraction of a considerable quantity of blood, it is obvious that we must take all possible precautions to avoid the supervention

when syncope occurs, the blood ceases to flow; we must, therefore, place the patient in the horizontal position, and allow the blood to escape as gradually as we are able. Suppose, for a moment, that violent influmnation less existed for several hours, and you proceed to bleed the patient from a large opening and in the erect posture, and fainting is instantly produced; what will be the consequence? It will be thus-the very small amount of blood obtained will not remove, in any degree, the local inflammation; but as soon as the patient has rested for a short time, reaction will be effected, and the whole infliminatory process will proceed with all its previous energy. You see, therefore, the importance of learing these distinctions carefully in your minds. But you will find that bloodletting above, however discreetly it may be managed, will not be a sufficient remedy in cases of inflammation, and will require to be followed up by other means; for after even ample venesection there may remain enough nervous irritation to induce influematory fever, although the local inflammation may have been at first diminished; then this fever, reacting upon the bittle local inthumation left behind, may predily resexcite it. and matters soon return just to the place in which they were at the commencement; so that, after venesection, it becomes our duty to adopt measures that shall allay the nervous irritation, and perhaps the very best agent we can employ for this purpose immediately after bloodletting, is opinion. supposing that the nervous irrulation is of slight extent, so as not to demand special attention, and we find in it signl considerable vascular excitement remaining, we must have recourse to lara? bloodering to well a general. This hard depletion produce a much greater influence upon the warr thin on the brook and therefore is partien-Indy adapted to the circumstances we are supposing, viz, cases where inflammation has existed for a considerable period. It is especially indicated, also, in influmnation affecting membranes, and more decidedly so if the membranes are near to the orrive of the body as in plenrisy, peritouitis, pericarditis, and the luke. Local depletion has a me beneficial effect in cases of brondaire, also in inflammation of the mucous membrane of the injectives. The old searcely tell you, that the ordinary mode of local depletion is the application of lecches in munbers regulated by cirema tances; another method is cupping, which, in many instances, is invaluable, and far superior to levelors. Local bleeding has much less effice. on inflammation seated in the parenchyma of organs, because the vessels of the organ are less connected with the external surface to which leaches or cupping would be applied. For example—in a case of deep scated premnonia,—or, indeed, in any pucumonia whatever.-the application of leeches is, I believe, of little or no use Again, in inflammation existing within the head, 1 think leeches are of comparatively little beneat. In old age, leeches are particularly useful because the ve sels having lost their elasticity are not so easily affected by general bloodletting. We have next to consider more particularly some of the principal internal remedies in inflammation—for we have other means of evacuating besides bloodletting, and none are so effectual for this purpose as purgatines, except in cases where violent inflammation is scated in the mucous membrane of the alimentary canal, in which case you can readily perceive much caution is requisite. The influence that can be produced upon the system by means of purgatives is very great; it is no difficult matter even to cause summaps by their administration, although such a result is rarely advisable. The brisk purgatives are the most useful, such as calonicl and jalap; the neutral salts are also serviceable; these remedies are, of course, not to be

(which are also, to a certain extent, cyamants) are of little or no use in cases of active inflammation; to depend upon them would be like hi wing gently upon a red hot iron.

One of the great antiphlogistic agents, and one that perhaps most nearly resembles bloodletting, is antimony. It must not, however, superside bloodletting, but it is of the greatest service either with or after it. It has a decided tendency to maintain the reduction of the arterial action which venesection has produced; it dimmish a most perceptibly the hardness of the pulle. In Stakt eases of i diammation, James' Powder will an wer every purpose; but in more active cases the tartor , un tw (or potassio-tartrate of antimony) is preferable; sometimes it produces purging, and generally vomiting at first, if given in anything like tall doses. It is found most beneficial as an antiphlogistic, when it does not produce discharges of any It seems to be of special efficacy in 7% many inflammations; its mode of operation has been much disputed. Some talk about it who sorbing the power of inflammation, and say, that its emetic action takes place when the inflammation is reduced; but then patients will continue to take it when inflammation i diminished with less sickness than when the inflammation was commenting. Lacince thought it acted as a counter-irritant, by time up on amount of irritation in the stomach, he also thought that it operated as a orbefacient. It nots both as a conuter-irritant and absorbent. Small doces are disphoretic, without in real the region of the heart. How then is it displacets to the some property of relative the vessel, it may relax the tonicity of the vessels. Antimony is a most service in the early stages of inflamination, clienthe arterial tension is greatest; it is of a sucwhen solid efficient for rate in place, and leaker a stuli in inflammation of single or cross mem-branes—its efficies may be and a be in proporthen to the greater virient with of the inflamed part. It is very beneficial in imbanes tion of the festicles, lung . &c. In it containly assist in thicht Consect inflammation of the nation thembrane of the allinearing and. The deer, we are a all phlogistic, is in most case, from the quarter of a rain to two grams. But come coupled it is very much larger quantities for in these, the Irelian recommend do coof the entire two or three times

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CONTRACT BATE OF DETERMINE A CONTRACT

OUNTED MEX. - I have now to brine before you the discon of the corchad y bonds the first part of the subject of the nervoir discount region to netual disease. The two from a letters were confined to what may be seed decad pollinomary to that which one ht to form the chart and off of any off or my observation, via the play is been at the corresponding stems. In white the at even the night of the diseases of that y is nothern hear has a har to fore I do this, I among call your afformation to one or two points of some importance. It is quite dates to us all that the nerve in thing without the circulating was a half say two words first of all, with resard to the circulating y tem, and then two word mer reporting that circulation while the pervention of term of the first period from the storage and the storage and the circulation, which you must be all well acquirinted that the term through the thr with, but I do wish to harke one observation or two in the first place—you hear of the X in a the heart and the arraries. Now I table she heart and the arraries to be morely machinery; the object of which machinery is to produce the circulation through the capillary vessels. The advantage of the result is a produce the circulation through the capillary vessels. The advantage of the result is to be not be produced the circulation of the result in the capillary vessels. The advantage of the result is to be result in the capillary vessels. through the capillary vessels. The chief part, in fact I might discit at the blood is strated between the fact I might discit at the color part, of an organs of ingo tron and discition—between the

mation, it is before to repeat bloods thing it it could be done. In some inflammatory afactions in large system. The blood is received from the the other or anse those of secretion, the liver, and large system by the veins. The veins may be the kidaics. Why do I mention this subject just to she was a functional property of the considered as so many duets leading the blood move?—just to she was unfait the small intestings. back from the part that had been supplied, to the heart. The heart is the organ of the motion of blood cannot be performed; and if the liver and the blood, and it may be regarded simply as the instrument of motion, and the arteries must be considered as merely tubes carrying the blood to the parts required to be nourished. Now, the object ation I have to make is this: that all these are more machinery; that the voirs are tubes and the heart is the instrument of propol-ion, and that the arteries are more tubes. I am not aware of any change in the blood produced after in the vein , in the herr, or in the arteries. If, then, no change is produced to the blood, in this part of the vascular system, it is quite plain that all that is really eja alation, all that is ready function, with regard to the blood it cli, is perform by in the capillary exstant. The arreries divide, and divide again, into minuter and nelsors branches. These minute I ranches divide into other vessels, which I have ventured to eath channels, rather than vessale, because I extrem by doubt whether they passes any vesculur cost at all; indeed, who u'l investigate this subject. I am the more inclined to believe that they are more channels formed into the interdice of the substance of the langs, rather than that they policy draw conts, as in the lorger division of the macries. I think Usuid this in n year argo. - and the subject is till, a matter of doubt and a matter of uncertainty. But, as the as my opinion is concerned, I say that it is much in we probable that the capillary vessels are more channel, then that they are actual tobe. As to trace chemicle, they are vorious in fevre; but, conegally public, they consist of algorish which miles and their divide, and then unite and then divide, and then unite and divide against the region the whole substance. and of this the healy is nourilled. They are oning a size and what is important to objective i , they the arteries become smaller and so ther. and the sain become break and break. The up ric subdivide continually, and the vein maile eastimedly. The agent of the heide, and become smallers the vein unite and become become to the capillary ve .- In units, and divide again and again dermited, we be were, and work of channel retires then we set is they meantain the same diameter. When is the object of all this I believe that the simple object is - what I

could venture to call one of irrigation; the blood runs through all the oregas of the body: and they derive from it, thereby, that maximent they require to could them to underen chance. and in the powi had. Now, with regard to the egallary to G. in the harm. ThereI hardly tellyou that their object is, to express the blood to the atmy pheric nir, in order that certain portion. may be releasely, and that other partion may be given out, in the process of respiration. We see, therefore, that the object of this irrication -thi true circulation-is to nouri heall parts of the holy, to give icerca edetrough to the pare, by healthy corretion, and to do everything that irequired for the usual liment of the system. This then, if the first world wanted to say on the subject of sireubtion. A believe the vain a heart, and arresis, to be more needingry-the whole and do best of which is, to ivergete the different orems to the body, which is done through the nedicts of the capitlery words. But, there is another view of the adject at it quite plain that thing are exceed into the blood and out of the blood. Now the blood may be dowed as sinual of between the or cors of die tion, that is to ay, the storage hand the small intestines, and the

mation, it is better to repeat bloodletting, it is every observe circulation is the circulation of the capit-1 stourch, the small intestines, and the longs, and nov?-just to show you, that if the small intestines do not perform their duty, the functions of the the Lidnies do not perform their office, the blood cannot be purified; it cannot be deprived of those particles which, if they remain in the blood, remain as poison, in the blood, I have had to notice this fact in a medical as well as a practical point of view, to show that there is great danger if the kidnies do not perform their office. You have not doubt seen, within the walls of this hospital, case where the kidnies have not performed their office. Where the secretions are of such a nature as to be clearged with albumen, and the blood cannot perform its office, what happens? There is a danger of this kind, that you will have an attack of apople .y, or pally, or epilepsy, from this superficial const. Now, I have not mother word to are on this subject, for it does not belong to my dejectment, except inasmuch as it is necessary to show how the well-being of the nervous system depends on the well-being of every other part of the body, and that the well-being of the nervous y tem depends on the well-being of the blood.

We now then proceed to the subject of the nercon vetem and especially to circulation. Every pater the nervous system-the brain and the pind marrow, and the ganglionic system is per shed by the blood. It may be said, indeed, their the unional frame consists of a nervous system, and a vascular system, to which must be added non cular system, and if we have these things so bin d together, we may take away every other part of the skelmon, the oscous system, and everytog but the nervous system, the vascular system, and the mere dar system. Then, as I said before, ere y part of the nervous system must be supplied with blood; it must be supplied with its due quantity of blood that, blood must press upon the body we has eart in degree of force, and must be perfect. Where he the slightest change in any part, the lightest defect he any of this three particulars. you will have Ji ca cound, very strange to say, you till have similar di ea es from contrary states of three thines. Taking first the pressure of the blood; now, it is difficult to increase the pressure of the blood upon the br. in and the spinal irrarrow. but there is a made of increasing the pressure, and that is by preven ing the blood from flowing from those or, in . Now it so happens that in every cuse I have heard of blood so prevented from flowing from the brain, it has taken place in a disordered circulation. If you close the larynx pilepsy close the bryny-while convulsions are seen in children. Whenever the laryny is closed. you have invariably the blood prevented from returning from the brain, and the cone equence is, you have the pure tries of apoplexy, owing to there being too much the limithe brain. But you find this state of thises only continues for a certain length of time. How bing doe it continue? Only until pature has led an opportunity of restoring the Idead to its normal questity, leaving neither a greater part nor too little. Suppose instead of having too much you have too little: suppose that instead of having it out with a proper degree of force, you beneal from with too anall a degree of force to the brain, what is the cone equence? The phenomeno are very similar. Look at the case of common syncope. I recalled a most interesting may of this kind, with had tibe to have proved tatal. It was not e in which the patient had been bled to a cate of pacye, in the upright position The blood was an engrounder poticit in the upright position, for the person who performed the operation was not aware of the importance of having the patient in an horizontal position. Now what was the consequence? The parient fell first into a state of debriane, and offerwards into a state of coma. Put that was not all; he fell into another state in thet, he was affected with violent convulsions.

At present I wish to keep your attention to the mere lasin, the central part of the cerebral sys cent. I have just informed you that we lead that a state of delirium, and then a state of coma. The syncope was followed by a state of coma. Now then you have these facts to bear in your minds:- A state of coma produced by an over quantity of do not perform their functions. messure of the blood, and the same state in an undue pressure of blood. The same thing is produced both ways. Now I have told you just now that an over pressure of blood would produce similar effects on the other parts of the nervous system as the undue pressure of the blood, but I am not prepared to give you any precise care in which convulsion is produced by the undue pressure on the spinal marrow. We know that undue pressure on the spinal marrow will produce convulsions, but I have no facts at present, and as my object is to bring only the truth before you, if I have no facts ready to addice I do not addice any. Now then in the case which I have mentioned we find the patient had too much blood taken from the system. He was bled to a state approaching syncope, in an upright position, and in tigit case there was slight delirium, then coma, and then convulsions. A friend of mine residing at Bridgwater, was called to see a physician of that place, who was attending a gentlemen who had been bled in a recumbent position: and now let me tell you that no patient should ever be bled in a recumbent position: I say this because you cannot tell beforehand what the system will bear, and what the disease may require. You may guess it, but you cannot positively tell, and it may happen that you may guess wrongly; you may take fifteen or twenty-five ounces, and if you take twenty-five you may take too much, and if you take fifteen you may take too little, but if you take the patient upright, and bleed bim to syncope, you may obtain the proper quantity. Well, this gentleman was bled in the horizontal position; there is no doubt too much blood was taken from him, for he fainted. I think there is danger of the patient fainting in the horizontal position. He fainted, but the hemorrhage did not subside, nor could it, because he could not be placed in the proper position; and that gentleman fell into most violent convulsions. You are aware from what I have before stated, that disease of the brain cannot produce convulsions. Now this case is one in point, to show that too little blood in the spinal marrow will produce convulsions. Now, why may that not be the end in disease of the brain! In the first place I have told you that no disease of the brain can produce convulsions. Now I come to the spinal marrow. You may not be aware how sheep are killed. I can tell you the process. I have been to see animals killed in various modes, without being the means of ever inflicting pain or death, or any suffering, and yet I have seen the physiological effect produced. The butcher generally divides the blood vessels, and then turns the knife, and divides the spinal marrow, and so the arimal bleeds to death. In so bleeding to death, Gentlemen, it always dies in violent convulsions, I went on one occasion, and desired the butcher firs(to kill the animal by dividing the spinal marrow; Thad the head evered entirely from the body, all but the skin, and then the animal was allowed to bleed to death. You see very clearly that the head had no influence over the muscular system, because it was severed from the body-then the question came to be whether there were or not in this case to be convalsions. I watched the flow of blood for a considetable time, and found that no convulsions occurred; but the animal at length became violently convulsed, and then it was obvious that this convulsion was a spinal marrow convelsion, and that it arose from too little blood in the spinal marrow. I conclude, then, that not only will too much blood, but too little blood, will produce convulsions, and it proves also, at the same time, that its causes are very imilar, in so far as regards the blood, its quantity, and its pressure. I wish to say one or two words respecting the quantity of the blood. Whenever the blood is not properly formedwhenever the stomach and the intestines do not do their duty, it is quite plain that the chyle that ought to form the blood, cannot be formed. I believe this is the ease in many cases of amenorrhoain one half of the femaleses, and this also causes chlorosis and other phenomena in children and grown-up persons, especially in the female sex, about the age of 16, 18, or 20. The blood is not formed. Why is it not formed? Because the organs of deglutition, the stomach, and the bowels one I look away the spinal marrow, and in the large proportion of opium, generally the "Infants'

Under the a circumstances the patient-I was going to say the little patient, because I have in my eye a little patient - is in danger of convulsions. I have a patient in Bouverie Street (where I called in my way here), the daughter of Mr. ----, one of the meet interesting little girls I have seen. This little pa-tient is about the colour of that doth-perfectly green. She lot her breath, and became affected with consultive movements of the left side, the day after that she had violent convulsions, and the day with this single exception,—it is reflex. What after another convulsion. There is no reason to then, is the emberion? Why, that a very great after that the had violent convultions, and the dry suppose the convulsion was produced from any other cause. I do not meen to say that it might not depend on the state of the Lowels, the diet, or the food; what I mean to say, is -that there was simultaneously a state of macnoralize with the convulsion: whether that convulsion arose from a state of amenorzhea, I am not prepared to sav. but the state of ameaorrhes was no protection again 4 the convulsion. You generally find, that (in the mind of the public generally, tits of convulsion and blood-lefting, are always associated; and you find, in practice, that the first thing that happens to you, when you go to ee a patient affected with conversions, is, that you are called upon to let blood; the purent will say to the count.—there is no convulsion, and no longer any medical man, "the child ought to be blad." This is the common feeling. Now, how is this to be explained? The convidious arise from a state of a menorrhea. -- that state of a menorrhea but from an imperfect formation of blood. But I should tell you that the little child I have been a'hiding to, had not lost any blood nor breath: and the rea on why the blood was not formed, seems to me to be a defective action of the smaller intertimes. I have one observation more, and it is one that I have, perhaps, made abready. You are aware of a disease, called Bright's bidney, because that was the name of the physici in who first detected it. In this disease, the name is loaded with albumen. My object in bringing forward this fact is to show, that whenever you have the urine londed with albumen, it is not only a fatal disease, because the kidney is affected, but the patient is invariably exposed to attacks of convulion. I once attended a patient, not very far from the University Hospital, who was affected with this disease: the urine was considerably albuminous, and, in the midst of the affliction, a series of epileptic attacks commenced, and terminated her existence. That was a case of albuminous urine: and from this fact you may take it for granted. that whenever the prine is not in the most healthy state - secreting what it ought to secrete, and no more-whenever it secretes sugar or albumen. there is danger to the nervous system-the danger of epilepsy, and, therefore, of convulsion. I will mention one more case, which occu, sed at Dablin, under the inspection of Lz. Bligh. There was nothing projector in the symptoms of the patient, to create may fear the first day and night, but, on the very next evening, the patient was taken with the most decided epileptic attack. ver saw. The man was obliged to leave his business, and has recently died. There was albuminous reine, and, with this, an attack of pilepsy, produced by the introduction of blood through the ventricle of the brain.

I have just said a few words respecting the circulating system. The parts of the animal frame may be viewed as manufacturery. This is called the real circulation; but the blood does nothing in the veins, the heart, or the referies; all it does do, is in the capillary vessels. Then I showed you that there was a connection between the circulation of the blood, and the nervous system. Now, with regard to the actions of the true spinal marrow. I believe they are all reflex, in every instance but one, which I would call a direct action; that is, the action of tonicity in the muscular fibre. How can we prove that this is a direct action? I will tell you a simple fact, and then you will observe how I come to the conclusion that this is a direct action. I believe that the spasm after death-what is called the spasm of death-to be an action of the last hind during animallife. I took two rabbits, and killed both by a blow on the back part of the head. In

other I left the spinal marrow entire. I then placed them on a table, and watched to see whether there was any difference between the two, and I found that there was something more-in the one in which the spinal marrow was entire, than in the one from which the spinal marrow was removed. The one in which the spinal marrow was perfect, was free from any rigidity. Here is a perfect case of direct action. All, then, is physiological with regard to the spinal marrow. part of its actions are pathological. Now, take an animal, and see it breathe. The acts of respiration are entirely physiological and reflex. Take an animal and place it under water. You will eradually find that the animal is affected with convelsions; now, these are direct, and are owing to the circulation of morbid blood upon the spinul marrow. First of all, the blood is surcharged with carbonic acid, and a state of coma is produced in the brain, from the circulation of improper and morbid blood: you then see violent struggles to escape-these cease in a second, and the animal dies perfectly till. The moment you observe it Slent, you may be sure the brain is in a state of action. By the bye, these struggles are respiratory; they are invariably taken to be struggles of respiration, and with these struggles the whole of the animal is drawn together in a state something like empro thotoms. You see this is a pathological, and a very interesting, state of things.

+ Polis such med in service t.)

PRACTICAL OBSERVATIONS ON THE NA-TURE, PECULIARITIES, AND TREAT-MENT, OF SOME OF THE MOST PRE-VALENT DISEASES, &c. CONNECTED WITH THE POPULATION OF NORTH CHESHILE, AND SOUTH LANCASHIRE, EMPLOYED IN COTTON FACTORIES.

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(Continued from page 200.)

Under such circumstances, it is next to impossible that a healthy off-pring can be expected. The only time the child can enjoy its natural food (the breast) is perhaps the factory meal hours, when the milk has been long pent up, and, in all probability, is much depreciated, or during the night; and if not had of itself being mixed with the had food previously given, soon takes on acctous fermentation, producing a never-ending catalogue of diseases under the general term of acidities, in the first passages. It would be next to impossible to attempt remedying such affections by medicine alone. and equally so to expect a change of habits sufficiently extensive to have any heneficial effect. The best artificial food I have found for early infancy, is the brown crust of a home-baked loaf of bread, boiled in a small quantity of water to a pulp. For the first few weeks the child should be fed on the liquor only, but after that on the pulp as well as the liquor. In this simple diet difficulties arise many families have not the convenience of an oven, and most of them have not the time allowed from their occupations to bake their own bread, and have therefore to rely on that from public bakers. well known to contain alum, potatoes, and other materials, having a rapid tendency to acctons fermentation, in Eact, the main source of this class of diseases in children.

It should be observed that this simple food when properly made, seldom becomes acid on the stomach, but to ensure it still more effectually from that tendency, every care should be taken not to u e any of the inner portion of the loaf, but the browned ernet only, the former being more disposed to become sour than the latter. As acidities in the alimentary canal are in all cases attended with great uneasiness, restlessness, and almost contimous crying, this class of people are very prone to apply remedies of their own procuring, which are invariably quack nostrums, in which there is a

care, which is imitated by ever stenge is in town and country, and that sought alor most, which preduces the most step-fain, deces, that is, containing most opium. Indeed vast numbers of the chittle beings exist only from day to day in a out of dreamy oblivion, and some diserve ibrought on by such proctees of erester lit by, to release the utter to dom their misers. To give come alon or the extent to which this prices in carried. I knew of one locality, the population of which doe not exceed twenty thou and, in which there are not less than eight chemist and druggists. all of them vendore "intants' preser catice" of come third or another. On to my certain knowledge makes it in large quantities, about twice a week. at each making use of not less than an inperial quart of the finet opii. Ought not neh thats to b - known to our patriotic texislator ? Can my one be surprised at the general appearance of such children after the disclosure of such practices;

The treatment must likely to reverse in a cidities of the first passage is unreal reinous and eretaceons unixtures, combined with a little anisceed as a armina-If obstinate, the addition of a little sale as bount, potass, will occurretly be sofficient, occa-Sionally the hydrary c. ereta, is advi able. After such treatment the common consequences observant on the use of opiate nostrains are absent, and there is the atisfaction at lead, if the child inks, that the means craploved leave not facilitated or in any way lastened, it death. I do not as in to deny that opinm is not useful even in such ones, but it should be given only under the direction of a medical practitioner, and I believe is use is more limited them is generally allowed. After all, unless the child is well mired and well ted, the best treatment will avail but little, and must frequently fail. The dram conttendan on the foregoing bad ystems of mursine and feeding children, are not merely continued to such as have already been noriced, but extend to others of a far more formidable character, and more frequently fatal in their residt. Perhaps the most prevalent, (and certainly a very fatal affection,) I have with seed in this class of society, is the mesenteric glandular affection, a class of cases that has generally been considered as hopeless, the length of time required for any effectual treatment, the slow progress of amendment, if any, renders the parents careless and often indifferent; that rigid attention which alone can some benefit is relaxed, the child is indulged with anything, and everything (under the false notion of kindness) which soon terminates its existence. From having paid creat attention to this disease for many years, and after leving witnessed vast numbers of cases. I am convinced the disease is to he controlled by medicine, if anything like proper attention can be secured to the diet and mirsing. Where that could be obtained I have seen many recover after having suffered most extensively, and to all appearance when the case has assumed an almo t hopeless position.

Some time ago, (See I in Pol, 1, 1841-2, process to I directed the attention of the medical prote ion to the small end disence in the meson-tene shind of the adult, who is led me to a line of practice in children that has invariably given as is fiction when per evered in, and when second d. by the most rigid attention to dist and nursing, The cause of this decree is sufficiently apparent when the foregoine had habits are considered Polymortem in we disclosed the fact, that the meanteric class are obliged, or in planer terms, they are incapable of allowing the chyme to part through, which is more any to become chyle. The child be reversions appetite but in consequence of this standalar ob truction, the y tom receives no instrument, as the di east progres es, the belly swells, and becomes tyraps and while the rest of the body we war regully, and the child son dies, is some means or relief are in a attempted. The plan I have coverell a pair a dishir () creenlate the diet, allowing the child to be told at tased time, with an interval of three or tom loop between a right, but which, nor the last food or may made to be followed.

which a fittle spirits of tr jentine is put, say about a rounce) for about five n juntes, the belly to be rubbed with soap liniment, and of, terib whince in equal parts every morning. Wit's respect to mee ie, I oldy give a dose of the hydr. c. creta, might and morning, to each of which doses is added one-four h of a gram of calonick. The powders are to be combused for some time, and , up the calculate occurious ly. By adopting this imple plan, I have restored many to perfect health after every other means had been tried in ve'n. I have caren found advantage in advising flaund next to the slin in marasmoid affections perfectionly; and this is, perhaps, more requisite from the prevalence of a moist atmosphere pervading this locality; confirmative of this, is the fact of minups being very prevalent in infancy, but more remarkably so, in the next period of his, of which I shall say more hereafter. As macht be suppoled, by the congregation of numbers, and the little regard paid to elembrass, entaneon eraptions are very common; the ring-worm. and saild head are particularly so, and some of the cases assume a very obstinute character, and only give way to the most energetic, local, and constitutional treatment. I would just notice, independent of the constitutional treatment, I have found the use of about ten or twenty drops of the send. sulph, rubbed down with an omice of the ol, palmo very efficacions in deper ing the scald head; of course, neither it, nor may other local means arlikely to succeed, without the constitution being attended to. Teething 1 - generally difficult, and perhaps, to that circumstance, so many cases of hydrocephalus are to be attribut d; these latter, however, are most prevalent in families of strumous babits, and in the treatment of which there is nothing different to the plans generally followed. There are still other discuses to which we might direct attention, but as they will fall more legitimately under the next chapter, I shall defer their consideration in this, to avoid unnecessay repetition.

THE PEAD OF GOOD, THE MURDERER

Tuy fourth meeting of the Phrenological Society for the present session was held at the Society's Chambers, in Exeter Hall, on Monday evening last.

JOHN ELLIOTSON, M.D., T.R.S. &c &c., President, in the Chair.

After the usual preliminary business, an address was delivered by Edmond S. Symes, Eq., on the correspondence between the cerebral indications and the known chracter of the murderer, Daniel Good, in an wer to some recent arguments again t phrenology. Mr. Syme gave a brief sketch of the character of Good; his poor intellect, his propensity to theft, cumning, lying, debanchery, and extrense violence, - counterbalanced only by great affection to his child, and by general respectfulness to his superiors; and then pointed out on the east of his head the small development of the foreliead, the region of the intellectual faculties, the extreme breadth at the side , particularly at the organs disposing to volence, (destructivenes) commo, (eeretiveness,) and love of property, (acqui itiveness;) also at the back, in the situation of ennings, (combitiveness,) and physical love, camativeness;) and the loping of the coronal surface, (the moral religion,) together with his very large lave of off prine, (phil procenitivines I and Irree veneration, observing that this list organ did not necessarily imply any feeler of relecion but might show it elf,

, in this case, is respect to aperious. He need to be after more fully, he sid, into this compare on, as a very assured account of the box now the norm is the form of the comparison, as a very account of the hibited a number of states, and box now to make the norm of the high states in the high states of the high stat

A repid bath every right up to the erm-pits, in since attended a lecture professing to disprove phrenology, the lecturer taking for his " tox." this very head. The demonstration he had just made of the perfect accordance of the cerebral development of Good with his character, wa perfectly conclusive upon that point; but, although to the members of the society it would of comse be a work of supererogation to undertake any refutation of arguments against their science, still, as, on the present occasion, they were honoured with the presence of many ladies and other visitors, some of whom might not be deeply versed in the principles of it, he had thought it might be not altogether uninteresting to examine a little into the lecturer's general grounds of opposition; and this, not because of any weight likely to be attached to the opinions of the individual in question, nor from any particular cogency or movelty in the objections themselves, but because they are just such as are usually adduced and eagerly adopted by opponents of phrenology, and, if treated with the contempt they deserve, might be supposed vilid by those who do not know how often such arguments have been refuted.

The lecturer commenced, said Mr. Symes, by acknowledging not only that " the brain is the organ of the mind," and that, " for the proper manifestation of its functions, the brain must be in a healthy state;" but that "it is a general rule that in all persons of great mental power, we find a well developed head, and particularly a large forehead?" "But then," said the lecturer, "all this was well known and admitted before the time of Gall." Mr. S howed that so far from this truth having been generally admitted before the time of Gall. quite the contrary was the case; so that when he first announced his discoveries he was assailed on all sides by ridicule and persecution, and that it is only recently that it has become generally admitted.

The lecturer next asserted, "that the brain was not composed of a great number of distinct organs, but of single and undivided organ; the whole brain being brought into operation on every exertion of the mind; forgetting, or not seeing, the force of his own admission, that, "in all persons of great mental power, we find a well-developed head, and particularly a large forchead." Whereas, if the brain were a single organ, mere size and quality would be sufficient, without reference to form. There would be no necessity for the forehead—the intellectual region—to be large: and, certainly, no mere dictum will suffice to overthrow the mass of facts by which Gall has established the multiplicity of the cerebral organs. How is it, if what the lecturer says be true, that he " has had extensive opportunities, during the list ten years, of examining vast numbers of heads, in various public asylums, and comparing them with the individuals' characters," that he does not adduce any facts in support of his assertions? How is it that the cases he has addited, turn out to be only additional proof of the truth of place nology? We see that this is so with regard to Good; and the only other cases he men tioned, those of Thurtell, Hare, and Burke have long since been proved to be equally

The lecturer had next declared, that . " it i impossible to ascertain the form of the brain from that of the head, for that the differen parts of the kull vary in thickness from one eighth to one fourth of an inch " Mr. S. ex hildred a number of skulls, and various see tions of Tulls, to show that, in healthy shalls whereas, the differences in the size of organs is estimated by inches, and the mere one-eighth inch would be of no practical importance. Of course, in cases of exostosis, or other disease, exceptions might occur; but our rules do not apply to cases of disease, and such

exceptions are extremely rare.

"Then," the lecturer "did not find these organs marked out upon the brain as upon the marked bust, nor any correspondence between the two hemi pheres, the convolutions on the two sides did not run in pairs." No; no phrenologist ever pretended to find the forms of the organs so marked out; when an organ is largely developed, it shows itself externally, nearly in the form and situation indicated upon the marked bust. No one pretends to define the precise limits of different organs, any more than he could point out the exact division of the colors in the spectrum: the marked bust is merely to teach learners the ordinary forms and situations of the organs, which may be situated a little higher or lower, according to the greater or less size of neighbouring organs; but an expert phrenologist can readily distinguish them near enough for all practical purposes.

The two hemispheres correspond in a remarkable manner, but whether the forms of the convolutions on the two sides are so symmetrical that we can trace out which particular convolution belongs to each individual organ, is a point requiring further investigation. Mr. S. regretted, however, that the bust should be so marked as to give a handle to such objections as the above. Gali contented himself with placing a numeral as nearly as possible in the centre of each organ, and then shading it off, so as to show its ordinary limits. Upon the bust, too, all the divisions are marked out, as if the functions of each were ascertained with equal certainty. Now, as regards the 27 or 28 organs discovered by Gall, the mass of evidence in support of them, is so conclusive, that we must consider them as perfeetly established; but, as regards the 6 or 8 which have been added since, the functions of some of them appear to have been correctly assigned; but the evidence in favour of others is inconclusive, and of some, perhap, , antenable. But to return, said he, to our opponent:

"The convolutions at the base of the brain, and between the hemispheres, are as numerous as elsewhere, yet phrenologists assert that

these are not organs."

This is altogether nutrue. There are not any convolutions between the hemispheres, and so far from denying the probability of the existence of organs at the base, some facts have been recorded, tending to shew that an organ of *love of life* is there situated. As we cannot, however, distinguish the development of the base of the brain during life, it is difficult to verify this.

The lecturer objected that "Mr. Combe professes to be able to fell, from the form of the head, whether a person was a good moral character, or the contrary."

Neither Mr. Combe, nor any other phrenologist, ever pretend d to predicate actions. What we do profess, and are able and willing to prove, is, that we can discover the tendency of the character from the form of the head, supposing the brain to be sound.

The lecturer found fault with phrenologists for not applying their rules; and, immediately after, exclaimed against a proposed application of them. Some one had remarked that no phrenologist ought to take any one into his service, without a previous examination of their cerebral development.

"Here is a pretty proposition," said the

lecturer, a well-conducted person who brings a good character from his last place, is to be thrown out of employment because your craniologist finds some bad brings in his head."

In vain had science a served that there is no ban head."

Whilst the lecturer was indulging in this eloquent distribe, there stood upon the table before him, as if in decision of his argument, a cat of the head of Comvoilier, the morderer of Lord William Russell, a man who had brought with him an excellent "character" comformer masters and mistresses; yet no plucuologist, who had carefully examined his head, would have trusted an individual with such an unfortunate organization as this head presents.

Then, "Phrenologists say that the cerebral power enumates from the grey substance—and my strongest argument against thein," says the lecturer, "is this, that the grey substance is not of one priform thickness all over the brain, but is of all kinds of thicknesses."

Now, in the first place, it is an hypothesis by no means generally received among phrenologists, that the cerebral power emanates more particularly from the grey substance, though there is every reason to believe that it does entanate from the surface generally. Gall taught that the grey substance is what he term, the matrix, for generating and nourishing the white, fibrous, portion of the brain. Dr. Fletcher, and some others, are of opinion that it is also the grey portion, more particularly, which eliminates thought and volition; but, at all events, this does not affect the principles of our science; and, certainly, it might be quite true for anything that the lecturer advanced to the contrary; for this, his strongest argument against phrenology, viz. that "the grey substance is of all kinds of thicknesses, is an assertion by no means true, since it is pretty equally distributed over the surface of the cerebram and the lecturer did not appear to be aware that, in the cerebellion, the grey matter is not upon the surface, but is beautifully arranged upon its internal situation.

Mr. Symes then took up the coi hono argument, and entered into a disquisition upon the very extensive applications of Cercbral Physiology in Education, Medicine, Criminal LegIslation, &c. &c., and concluded his address by adducing numerous pathological and physiological proofs of the truth of the science.

The president announced that as the next ordinary meeting would fall on the 2nd of January, when it was probable that many of the members would have other engagements, the meeting would be adjourned till January 16th, at the usual hour.

CURABILITY OF CONSUMPTION

To the Editor of the "Million Ar Taxa"

Sir,-I have discovered, with great pleasure, that the several cases, demonstrating the curability of pulmonary consumption which, lately appeared in your columns, have produced so deep an impression, that medical men are now induced, despite of the principles in which they have been schooled, to turn their attention to this important discovery, and yield to the convincing testimony of manswerable facts. This is as it should be, and when the light of reason once begins to shine, it behaves every one to aid in dispelling the mists, which have hitherto obscured it. On this account, and encouraged by the ready insertion accorded to my former letter, I again address you, to add further corroborations of the great truth which, Dr. Bamadge has been enabled to bring forward. The subject is not only inexhaustible, but so im-

deserves. The tanger of a stare has been pointing to it for age, yet no eye has followed the sign. In vain had science a serted that there is no ban without an antidote; the fact, as regarded consumption, was denied, and, until Dr. Ramadge made the d'scovery, the hearts of all who were afflicted with that terrible disease, were left to sint, in despois. He has now had the experience of nearly a quarter of a century, as senior physician to the infirmary for asthma, consumption, and other diseases of the chest; which afforded him an unrivalled field for investigating the causes effecting the cure of consumptive disease; and, as I have partaken of the knowledge gathered dom that experience, by being present at his bectures, and having made myself acquainted with the de-tails of many remarkable cures, I cannot better perform my duty to the profession than by diffus-ing what I have learned, and, in doing so, shall imitate the example of your excellent correspondent, "Philanthropus," who, very properly, gives you the sources of The advances.

In all cases of consumption, the grand law which effects its cure, is the prevention of contraction of the chest. The localities in which this prevention appears are, as I shall have occasion to point out, various. Yet, in every variation, the antagonism to consumption is established by one ruling principle, viz., the re-adjustment of the deranged relation or balance between the organs of inspiration and expiration, through the agency of something obscricting more or less the exit of the air in the act of equivation. Here let it be observed by the way, that nature, in her operations under this law, rarely does her work perfectly. and, in many fastances, runs from one extreme into another. The forces which represent the powers of inspiration are stronger than those forces which represent the powers of expiration; consequently, when the impediment mentioned exists, owing to the weaker expiration, and the imprisonment of air, in some degree, an enlargement of the inness takes place, and the cure of the disease is brought about.

No sooner does consumption occur, than it is ather or later norked by contraction of the chest. The windpipe, by recaining its original size, becomes comparatively too large for this reduced compass; the exit of the air is too free to offer antagonism to the advance of the disease, which would be attended by the occurrence of new crops of tubercles, and their presence and subsequent liquefaction in the lower lobes of the lungs. It is pleasing to observe that when nature or art interrupts the daily contraction of the lungs, before the invasion of the tubercles in the lower lobes, we find little or no disposition in the larynx or intestines to fall into diseased action. The following exhibits a basty and imperfect catalogue of the admirable, yet simple and accidental processes by which the beneficial interruptions alluded to are brought about, and which I shall comprise under the head of

DIFFERENT MEANS BY WHICH CONSUMPTION IS ARRESTED BY NATURE

Enlargement of the tonsils.

Diseases of the heart.

Tumours of any sort on the windpipe, or its division.

Hysteria,

Astlana.

Catorch, symptomatic or adiopathic

Polypus in the noise, or, indeed, any mucous intumescence in the same part, or nasal fossas,

Uterine hemorrhage, or profuse, or too brequent bleedings from any part of the body.

Di case in the vertebre of the neck, has, in more than one instance, been noticed by my preceptor to point beneath the pharynx, and constitute a tumour standing in the way of the expired air.

I now proceed to recapitulate the modus operantiof these agents .—

The subject is not only inexhaustible, but so important, and of such magnitude, that it requires to be examined in all its bearings, for only by the ling to the enlargement of the tonsils, so commonly

observable in them. I This ame diamons habitthat gives rise to the foregoing state, anto odently or concomitantly, deposits tubercles in the lauge: in the majority of cases we have no opportunity of seeing these, when, after a lapse of years, death follows, from disease wholly unconnected with any chest affection, owing to their absorption; but we not unfrequently witness the black stains or indurations in the summits of the lungs, where they have been. It may be here mentioned that even the greater number of adults who are seen with any degree of crearged tonsils, can recollect when only superficially questioned, that they had suffered under some antecedent affection; displaying all the constitutional symptoms of consumption.

As the greater power of the inspiratory muscles will, even under this state of enlarged tonsils, draw in the air with more freedom than it can escape, the preponderating action will, of course, expand the lungs, and, assisted by the weakness of the expiratory powers, imprison air sufficient to increase that expansion and thus enlarge the thorax; and, what is remarkable, by making the patient shortbreathed or asthmatic, so completely after the scrofulous habit as to remove the very impediment (i.e. the enlarged tonsils) which has the capability of defeating any contraction of the lungs that would lead to unmasked tuberculous phthisis, Still more extraordinary, the enlargement of the tensils alone is sufficient to render the hings voluminous, and to close up a cavity resulting from fiquefied tubercles. Dr. Rauadge considers cularged ton-its as indications of a erofetons habit, and that the lungs are, or have been, tuberculated; but this enlargement is, at the same time, a sign of the non-liab lity of the projent to sink under phthisical di case, of which it is on indica-Whenever he perceives the absence of this sign, he recommends caution to his patients in their intercourse with consumptive persons.

Many instances can be adduced from the practice of the above-named physician of what has been here stated, and, in a future paper. I shall furnish eases in point, supported by well-anthen-

ticated facts.

DISEASES OF THE HUART.—In all lesions of the heart there is to be found congestion of the venous ystem; and the bronchial mucous surface is in a greater or less degree cumelled, owing to the difficulty which the bronchial veins experience in tran mitting their blood into the larger venoutrunks destined to receive it. The consequence is, that imprisonment of cir is effected after the manner just explained in the preceding paragraph. and the lungs become voluminous. Though tubereulous deposits may have previously taken place in the top of one or both lungs, the disposition to form new ones is subverted by this enlargement of the lungs, which I have already described as unfavourable to the continuance of the scrofulous habit, or entirely subversive of it. The pathological research of Dr. Ramadge have enabled him to establish the co-existence of tuberculous discase with scrofula in any part of the body. He is also satisfied that anchrism of the norce, or of any large artery, i nothing less than the result of some previous tuberenlous disease which has impaired its power of resisting sanguincons impulse, Diraction has proved in all his recent esmanation of ancuri mal cases that this is the fact, and that there had existed, at one period or another, a tuberculous discase of the lungs. **Дъспеть**ть.

A BRIEF EXPOSITION OF DR. MARSHALL UALES LECTURE ON THE NERVOUS SYSTEM.

Str. - I was not a little surprised to read the announcement in your paper of Dr. Hall's lectures, which I shrewdly suspect your good nature, rather than your good sense dictated. Since a much fuss has been made about what is intrinsically worthless, and positively mi chievous in proctice; allow me to offer a few remarks upon the lecture in your last number, | paurre Grenouille!

in which I think I can shew there is both absurdity and inconsistency.

I cannot even pass over this first paragraph of kitchen oratory, in which the bad English is so apparent that it must strike the most superficial observer, c. g. :-

Gentlemen, it is my office (qy? ducy), to be ig before you the subject of the diseases of the nerscases of the neryous ystem. In introducing the subject to you I shall go yet rapidly through the auatomy and physiology of that water (2) I do not think I need go very deeply into the science, (of what?) because many of you have very probably listened to the more cloquent words that have fallen on this subject from Mr. Grainger, &c.

So then because a part of Dr. Hall's andience or pupils had listeacd to eloquent language from Mr. Grainger, the other, possibly the majority. was not to have the advantage of that instruction for which they astend the hespital.

I need hardly tell you that along the spinal canal a chard of nerve rune, which has been very improperly called the spinel marrow. I would rentive to call this a chard of verebral moves; for it is quite plain that from any idea of the subject that we have formed, it is neither more nor less than a chord of serves proceeding from the verchium, and passing along the spinal canal, and out of that do "we different members of the bely,-(Line 15th, Asteo'.)

We shall see presently that this is not a chord of ecrebial neite, according to the same authority. But to proceed:-

We will, therefore, view it a few moments as it ought to be viewed as a more cheed of spinal nerves ranning along the spinal canal.—(Line 23d, 1st col.)

What Dr. Hall says about the possibility "of removing the cerebrum, the centre of those nerves and the gan-dionic system, and yet have another kind of nervous system remaining in the animal body," (line 36-37) is stark staring nonsense. It is like saying, "Gentlemen, it is possible to cut off the nose, to remove the alse and the cartilaginous portions of that organ, and yet have another kind of nose. I am afraid it would have been a very difficult thing to persuade Sir John Coventry who had has now cut off by the brayes of Charles 11. that he had enother kind of nose still remaining. So with Dr. Hall's "other kind of nervous system," Here follows the "simple" (query complex) experiment to prove his assertion.

You see here an animal (a flog, alast for poor Mr. Frog! this "roly poly," and consequently his " opera list" were "gammon and spinach" to Dr. Hall) from which the head (2) has been separated. and of course (!) I reed and tell you, that with it the BRAIN HAS LELN ENTIRELY BEMOVED!!

Now I really think this was highly important information, whatever some critics may hink, for though it has been generally believed that mimals have their brains in their heads, it is quite plain, from presonal experience, Dr. Hall has not found this to universal as has been supposed. Has Dr. Hall then ever discovered a transposition of organs as others have a transposition of the senses? The brain in the epiga-trium-or great toe for example? To condinue :-

All the viscora have also been removed, and with the vicera every pertion of the Now, I beg to repeat, &c. (and here Le repeats all that he bad previously said), and yet when I pinch the extremity it moves, so as to be obviously percoptible at the remotest part of this theatre.

After another repetition of what he has once before repeated, relative to the removal of the brain and ganglia, he says, "yet you ob erve something remains!" To wit the dipeta

"New, Gentlemen, that which remains I rentwee to off in CONTRADISTINCTION FROM WHAT HAS BEEN TERMED A CHORD OF CEREBRAL NERVI: and the origin of the ganglionic system-the TRUL STINAL MARROW. - (Line 4, 2d col.)

Here then we find a gross inconsistency. The Dr. first call it himself "a chord of cereand then, with matchless forgetbral nerves," fulness, calls it "in contradistinction the true spinal murrow." This is a contradiction of himself, and we must beg to add that "spinal marrow," as applied to the "chord of nerves" running through the spinal canal, is not only contrary to every physiological principle, but to common sense; for no two tissues differ more wisely from each other in the human hody than murrow and nervous matter. They differ not only functionally, but organically they differ not only physically but chemically. But observe how Dr. Hall proceeds to argue against the very dictum he had laid down only a few lines above. He continues :-

It is plain in the first place that it is not a mere chord of nerves; if it were a more chord of nerves, you might divide it, and then you would intercept its influence... (Line 10, 2d col.)

In the second paragraph in the second col, we are gravely told

If you take an animal and lay the brain perfielly bare (the horrid process of dividing the integuments and sowing the bones of the skull go for nothing with Dr. Hall! Why a little reflection and his own doctrine of "shock," would have told him that all power of receiving or perceiving sensation, is annihilated by that very process, and that vulsarly speaking the animal is already dead!) and lacerate the brain in every possible way you can devise, you cannot in any manner induce muscular

Now I hold that the "shock" of dividing the integuments and bones is sufficient to account for this insensibility, and the example Pr. Hall himself gives, a little lower down in the same paragraph, of the insensibility of the brain of the horse, killed by the blow of a poleaxe to lacerations and injuries, amply bears out my assertion. But what is fatal to the position assumed by Dr. Hall is, that his tact is not true If the skull be only partially injured, and the brain be exposed, so that pressure be made upon it, convulsions in lantly ensue, and that fact, independent of my own experience, is vouched for both by Richerand and Combe, I have not Richeraud by me, but the case is eited by many writers. It is that of a female in whom convulsions could at any time he produced by making pressure on the brain, through un opening caused by trephining. A similar case, or I believe cases, you will find in Combe. We pass on to the last paragraph of the third col., where we are told, that Dr. Hall has thought necessary to rebaptize a certain principle of the nervous system, which a very unimportant personage, called Albert Haller, named vis nerrosa, and its appellation is now excito-motor. Welcome then Signor Excito-Motor, though like the Spaniard with the long name, we are afraid we cannot find room for you. But take your chance Signor Excito-Motor, you have the power to go whenever you please.

Dr. Hall says :-

That all the authorities have hitherto said that this vis reversa acts in one direction only; that is, from the centre towards the circumference, from the spinal marrow towards the muscle to which the nerve goes.

Now no physiologists, neither Haller nor A uller, ever said anything that can be fortured into the meaning conveyed by Dr. Hall, They knew very well that if a wound is inflicted on membra of the mutilated Monsieur Grenouille! the linger the sensation was first communicated to the finger and thence to the brain, which then perceived the injury It is true they did not call this pracess excito-motor, or reflet, but thought, as I still think, that vis nervesu was a good appeilation. But I have intruded enough for the present,

ALPRA.

Dec. 28th, 1812.

A LECTURE ON THE MEDICAL PROPER TIES OF THE PAPAVERACE, E. DELE A LRED BEFORE THE ROYAL MEDICO BOTANICAL SOCIETY.

By Dr. C JOKE, E.L.S., Prob. por of Polyadors.

If I were required to point out the manner in which botany has contributed most prominently to medicine, or to prove the inseparability of the different branches of medical science. I should adduce the grand discovery that from the structure of a plant, its remedial properties can hed duced Plants that resemble each other in structure, are more or less, similar in their action on the animal sy tem. This is true of individuals belonging to the non-autural order, and more strictly so when applied to those of the same genns. By this doetrine we are enabled to distinguish wholesome from deleterious plants when resembling each other in general configuration, and when, from any cir cum stance, the one commonly mad is wrating, to replace a by another, and thus, as Dr. Lindby says, are read red as someh at our case when alone, and seconingly without resources, in a land of antanown berbs, as if in the midd of a magazine of drugin a civilized country. This great truth, first a serted by Tournefort and Ray, extended by Adamson and the Justiens, has lince been confirmed by Richard, Desfontaines, and Decondot'e. and is now universally admitted. The proposition may be thus stated. Find out the natural order of a plant, and you leave in the volt majority of in dances, a suce key to the effect; it world produce on the living body. Probably, this world always be the case, were the true natural system discovered, or had we sufficiently investigated the true powers of every plant. At present we leave certain exceptions to make to the rule I have fuld down, and certain precautions to observe in the practical application of it. By attention to these, we shall find the number of exceptions will be greatly reduced. It is not my intention to enter this evening into the consideration of the exceptions; but I will notice a few of the cantions to be borne in mind. The natural order we propose to discuss to night -the Papaveracce-will invariant few instances of exceptions, and many of agreements with the rule. So many, indeed, that Docandolle views it as one of the orders most entirely tavourable to his views, and so places it in his "Essai sur les Proprietes Medicales des Plantes."

The chief precautions are :-I. That the plants to be compared shall be in the same conditions with respect to age, dryness, soil, situation, light, and air — all circumstances of known power in determining the activity of plants, A young plant has not the same quantity of active principles as a mature one-nor is one removed from the influence of light and air capable of for airing its secretions equally with one fully exposed to these agents. Then this principle the well known difference between the powers of wild and cretivated (blanched) celery is explained. Dryness, or and sture of soil, is often the cause of most essential differences, as in many of the nathellifere

2. The parts of plants used should be the some; it is not fair to compare the root of one libe the flower of another.

3. The mode of preparing them for administration should be the same. If more heat, &c , &c., he used to one than to another, it is obvious that powerful volatile principles may be dissipated, and the drug rendered inert.

4. Accidental or mechanical properties should not be confounded with those which are essential. The grass caten by dogs causes them to vomit; but we must not then couchide that it possesses emetic powers. The vomiting is induced by the sharp rough edges tickling the throat like a feather.

to A careful di finction must be observed between plants which differ in kind, and the co Strich differ in degree only. In some the active p ade is so concentrated us to render them poisoned whilst in others, though in, perhaps, the same a solute quantity; it is so diluted by starchagen, &c. as to become comparatively harable is,

6. We do not really I now the properties of drugs, and hence what one author would call senerally a stimulant, another would place a nongst the

emotics, purgatives, & a, &c.

 The powers of denga vary with their dones. Opinor be small dosest. stimulant the larger, nar-cotic--is soisonous (especially if administract be the fluid room), a dative, deprinting the powers of The without running through any appreciable direct of stimulation

8. From the ane natural system not being yet discovered, many plants are beyond doubt wroughy placed and thus form reeming exceptions to the role. By paying attention to these circumstances, we shalf be able to explain nearly all apparent. monuslies.

The paparers we are the Lambdorgh, cosens, herbareons, annual plants, less frequently shrule with fibron's roots, leave's alterante, simple, penninerved, dentate or primate, exstipulate, pedunele, uni-floral, flowers, white, red, or yeⁿow -never blue. Seprils two, deciduous, I etal sthree or four, and cruciate. Stamens unmerous, hyposycoms. Proit one calle I with parietal placents. * Seed ammerous. Typical genera, paperer, glaiding. Paperer of are known by the decidions only and parietal placema. The first distincted has them from the cistacces the latter from nonmenlacce and nympheases. Brasicacce differ in higher the

dimensiferrally namons.

The medical properties of the whole earler are wild and narcotic, and reside in a white or yellowish milky juice. The chief genera are in addition to these given as typical, chelidonium, ergemone,

smenic gia and borcosic.

I have stated that the proporties of the order are erid and nacotic -perhaps it would be better to say that the narconic are universal, and that in many genera the scrid are superadded. Those in which this occurs are the hidoainm, argenion, and anguinarie. The juice of these, blisters and corrock the Bin, and taken internally produce, if in small doscs, sciendant after emerie or purgative effects; if it larger, powerfully irritant and nar-The latter quality enables some of them as argemone mexicana to relieve strangury-the fruit of sanguine eie cauadensis and cheb-lonium majus also possess inrectie properties. No part of papers r rheet i known to produce narcotism. Phis plant, and the fact of a species of argemene, having slightly kex nine power a form two exceptions to the general rule.

The ceds of the whole order are innormous, and afford a med, bland fixed oil, which is often used with saled on the confinent. Some of the generaas glaneinm, are not known to have exild properties, and the juice of papaver, is not commonly his lieved to be so; but it is a curious fact, that if we take the morphine from opinm it will irritate and inflame the skin, and new opinin will cause lachrymation and accessing to its vapour. Few of the Papaveraceachave, except P, somniferum, been employed in medicine, and no other canter into the pharmacopeia. Chelidonium majus has been used to destroy warts, and to remove opacities of the corneg. It has also been give (a) a stimulant and sudoritie. Sanguine is can densis has been employed in pinhisic, croup, pucamonia, &c.; but not extensively; and argenous mexicana is onployed in India to chronic opthe mis and primary syphilitic sores. Its narcotic properdes are said to be stronger than those of opinin.

By for the most important of the order is P. Sonmiferum, from which opiem is obtained. This drug is the inspissated juice of the unripe capsules. In describing its properties, I shall give a general idea of those of the whole order.

First, in small doses, (gr.) to gr. 2) it is stimulant—raising the action of the heart and nervous system: in fall remedial doses (gr. i, to gr. ii.) it is narcotic; i.e., stimulating at first, and afterwards depressing-at the same time arresting, nearly, if not quite, all of the secretions. Thirdly, gathered.

in prisonom, dose sit to redative, depressing from the beginning. In all three dows, it is soporitie and anedyne. I don't not enter upon the effect. produced by the leabitud use of this deng,

Opium is used, according to Dr. Percira:

 In fevers, whenever there is much watchfulness. restlessners, diarrhea, or delirium, especially delirium tremens.

b. In inflammatory diseases, especially after bleeding, to relieve pain, restlessness, and spasm, or to arrest undire secretion.

c. In painful or other affections of the genitominary ystem-as stone, retention of urine, diabetes, &c. - to relieve pain, relax spasm, or check secretion

d. In ha morrheous,

In gauge ic, as a shumlant, in small doses,

To relieve pain of ulcers, espeia by those of a eaticulos instinc.

Much difference of opinion exists, as to the share each of the many roas, principles existing in opium has in producius or modifying it speculiar effects. Some, from being insoluble, may be at once pronounced, in the witters, inert. Others have, perhaps, in verbeen perfectly separated from those with which they are in combination; and, in a third class, experiments have not been made, either in sufficient number, or with sufficient care, to enable us to peak with any degree of con-

The chie principle tourd in opinm are, a volatile principle (cell.), codeine, narcotine, nar-ceine, meconine, meconic acid, morphine, prareorphine, psyados arphine, and extractive.

 The volume principle, to which opinm owes it, indone, would appear, from experiments by Orlila and other, to be inert. But it has never

been perfectly isolated.

2. Codeine,-The Latements in reference to this salistance are very contradictory. Majendie says it produces be point stopor. Dr. Gregory found er, vi, produced symptons like those of interiertion, followed by sleep. Others say it is irritant and stimulant, never stupefying-and some have conjugated is to be the stimulating principle of onian-

3 Marcovic was at first said to be the stimulant principle of opinm. It is now considered to be of but little activity, and that Majendic and Orfila. who ve wed it as very active, used it imperfectly radated, (Percira.)—Dr. Root, gave Aj., without any bast effects. In India it has been tried with success, as a substitute for quina, in intermittents. 4. Narceine-supposed, from experiments, to be

inert... 5. Mechaine - also supposed, from experiments, to be inert.

G Meconic Acid-peculiar to the papaveracexwe should be tempted to believe it had some effect in producing their peculiar powers: but it has been shown to be nert. What share it may have, in modifying the action of morphine, with which it is combined in opium, we cannot tell.

7. Morphine is the most, and perhaps, the only, really active principle of opinm; but, admitted as its a tivity is, the effects produced on the animal economy are differently stated. Some consider it purely sedative and and anolyne,-others, view it as possessing the same properties as opium.

8. Para Morphia, or Thebaine,-Majendie says it produces tetanic symptom, but his observations have not been confirmed.

9. Pseudomorphia is said, by Pellerier, to be morphica, which, by some other combination, has lost its poisonout properties.

10. Extractine, This is supposed to be one of the active principles of epium; for, in the first place, after it has been separated by magnesia, it gives, by evaporation, an extract which produces the same land of narcotic effects as opium; and, secondly, the effects of the known active principles are not powerful enough to refer the whole of the action of opinia to them.

11. Patty matter is mert

But for further account of what is known respecting these principles, I must refer the Society to Dr. Pereira's Elements of Materia Medica, from which much of what I have stated has been

TO CORRESPONDENTS.

Mr. I ha Inches Hore, at each are it of parties was partial, and Mr. Thomas Barby atto succeeded In , hate here rensed to be exercised with its vianotemast or outer ship, or in as nother way whatever.

Mr. Thomas Wakley.- Our corre pondence with Mr. Thomas Wardy.—Our correspondence with this beneviable menter and set prepare us for severing our replaced in the flower precise of the "Lancet." Mr. Hare in received, severel the cultur warms as a sine qualiton, not work at the publishes the decamerting grant appreciation has enhagement that err view transfers are the correct wee, and uncertained her are reduced, for a both we are more, machine indicated to the hore marker's moral—consider. One characters the markets and the transaction described to the "Larget" was was y three copies transcribed by an assistant from the required written by ourself; our end antograph- to the duty we one to our was criticistics - mile Leaving the " Medical Lancs" Office. Mr. Wakkey is inserting this copy, pretends to print it exactly as we the original, and the transcriber in the harry of expaicy, having unitted to junctuate, our reply is pub-Eshed is the "Lancel" almost introly authors pure trations, and of course—as Mr. Wak'ey rejected reads nothing the latter for the massier. Mr. Walley is a structure a ceremer, a weather of Porlarcon-if in addition to now a gentleman, public taste rould not bere been discovered with a wear, beggo in, and diety tink the ite, which jrayed by a rate, similar to that which cosmicted principle will pickprelating, would imply a sort of character- jetteforeging and imprincipled-againstichickwerentel meer think character, projectly, at life, sufely insured, it removes merely on the prefection green by law as one side, and howesty on the other.

Rhys Tudor. - He pulm had a paper on the usual and best mades of producing artificial someombulism, or nesneresm, in No. 152, col. 6.

B. C. D .- The detucry of medicines, and recorpt of pagina at by the offender, should be withe sed at one or two cases by one or two respectable parties, and a staterant (anthouseasted) of the whole affair laid before the Apotha curies Company, who might possible, though set prehably, prosernte. The case we think mould normal a magistrate in the committal of the delinanoid for trial, on the charge of chiaining money under

A Constant Reader, G. B .- We know of nothing present a man with diplocas, from a German or Scotch source, or seith none at all, practising as a physician augustyre but in London. Such diplomas, henther give no little to practise as on anotherary.

C. M. D.-A. Constant Reader, Manchester-Pen-M. D. S.-An Inquirer-Mr. T. B. C.-Philotens, M.D.—distinctl.

It Leaves will remaite his article legibly, we will read H. und : H. Liv, an answer.

Dr. Islamael Hall. We have received a rust numver of letters or this centleman which we cannot use Born, or bred, how or where he may have been, married or nomarried, howeverable as not howeverable in his prirate dealings, -on all such points it is ear wish, and enr resolve, to be enterely obert. He have had our ay. We have dealt him has hardly armed public positishment, and we have no notion of name out p no to influe ton him the refinencents of private terture, which so many correspondents have so well-new engly placed in our po ws.ion.

Dr. Hodgskin's paper accounted last seek is delaned to seek, from which of some activities in the seek, from which of some is as a winder some on the Dree's exent of Organ, "Dr. Southern et Chevillery, and a variety of other interesting paper."

" Rough Reports from Gui's" rest work.

ROYAL COLLEGE OF SURGEONS IN LONDON.

List of gentlemen admitted members on Triday, December 23rd, 1842:-

J. Drury, F. Morgan, W. Peskett, H. Horsfall, D. Sinelair, J. Percival, and H. W. King.

THE MEDICAL TIMES.

THE BRITSH JOURNAL OF MEDICAL NEWS.
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J. A. CARLIEVI, Publisher Comes, 19, F. et ettert (late 1 meet Office), Strand, London.

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THE MEDICAL TIMES.

SALURDAY, Duct MELR 31, 1842.

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To be able to decide, when, and where, a Government should interfere by laws, is the distinguishing characteristic of a time statesman. There are some things which are best left to what may be called hap-haz aid to that practical legislation which will always be established by the humours, the interests, the passions, the virtues, of those who are concerned in them. There may thence arise minor cvils, which would not occur under a more paying or stringent system-but the general result is more in tayour of the happiness of society. There are other things, again, where the same test of ultimate greater good being applied, the intervention of law is imperiously demanded; and thus, while we are not indisposed to think that, in many points of social life, our laws have needlessly intermeddled with a perhaps pernicious influence-we feel strongly, on the other hand, that society, in its united governing capacity, has been mischievously inert and forgetful of its duties in reference to many other matters, which, if less "material,"

and less numismatical, are certainly not of less concern to social interests in their highest aspects. Among these, are most of the subjects affecting the government of our profession-not the least important of which is, that to which we are about to call attention, viz., - British Medical Edt -CATION, IN BLIEBENCE TO LURACY.

Lunacy, no rare visitation in any civilized country, is unusually frequent in our own. In Great Britain, exclusive of Ireland, it is calculated that we have about 25,000 lunaties and idiote. Supposing this large number somewhat equally distributed among our population, we have a patient within the visiting district of nearly every practitioner in the kingdom. The important question arises-llow are practitioners prepared by their education for such charges? We know that lunacy is no ordinary malady,-that, while the deprivation of the noblest of earth's attributes, reason, and the loss of health, of liberty, of manhood, and of citizenship, which it cutails, make it the most calamitous of human afflictions—the variety of its phases-its occult situation-its mysterious origin and development, make it among the least amenable to the resources of medical skill. It is not only a calamitous malady to the unfortunate patient, but it carries its bane to his whole family; and, while covering it with the mourning of affliction and shame, its evil omen darkens the future of the young and unborn. Thus frequent, thus vital, thus widely calamitous, it must yet, more or less, cone before every medical man; he must see to itadvise on it-act for it-and how, we repeat, does his education prepare him for the serious responsibility? The answer is too ready. A few years since, there was not an institution in the kingdom where the medical student was brought in contact with the disease; and now there are but three (Hanwell, St. Luke's, and the Gloucester Asylum) where a very few pupils can purchase the privilege of witnessing the medical practice.

We know that there are some physicians who have acquired a well-deserved distinction, and who devote themselves exclusively to this branch of medicine-but the fact that they are few, that they principally reside in town, and that they are rarely called in when their experience might be of most service, when the premonitory symptoms are first showing themselves-makes the abilities of these gentlemen in no way impair the necessity of greater competency to advise in these sad cases of visitation, on the part of those in whose hands resides the whole medical attendance of the kingdoni- we mean, the General Practitioners. In lunaey, as in every other part of medicine, the especial cultivation, by the few, leaves the general cultivation, by the many, as urgent as ever-

In this matter, as in most others concerning the regulation of education, the French, though lately retrograding, have been far in advance of us. Dr. Combe. who has paid to the study of lunaey an attention and ability which well quality him as an authority, gives us this important testimony:-

The safety and even advantage to the patients, from the admission of pupils, is fortunately not a matter of mere conjecture. I had the good fortune to attend the first clinical course ever given on the subject of insanity, by the celebrated Esquirol, at the Saluctriere at Paris in the spring of 1819. I anticipated confusion and excitement, from the indiscriminate admission; for all pupils who chose to attend went round with Esquirol, when he visited the patients before lecture. There was no restriction whatever, except that he occasionally went into a cell with only one or two of the clerks, where he thought the crowd would excite too much. But instead of that, the patients seemed amused and interested, and during the whole three months, I never saw one instance of any excitement, or other unfavorable result. On the contrary, the visit was expected with pleasure by many, and Esquirol's kind, friendly way of addressing them, and then turning round, to make a good-natured remark to the students, had a manifestly soothing and beneficial effect. Of course, the students behaved with propriety and good-humomed forbearance also, and consequently were not regarded with the suspicion, which used to be excited in the olden time by the admission of visitors, who came to stare as at wild beasts. The number of students who went round with Esquirol at that time, averaged from thirty to fifty, and no confusion of any kind occurred. I visited Charenton and Ivry with Esquirol in the autumn of 1831, and up to that time, he gave the same testimony concerning the advantages, to both patients and pupils, from the above plan; and I believe, at Bicetre also clinical lectures have been given, and students freely admitted for some years. have devoted much attention to insanity, ever since I attended Esquirol's clinique in 1819, and every day's experience has added to my conviction of the necessity, even for the advantage of the patients, of admitting pupils to our asylums, under proper regulations. attending physician would, of course, prohibit access to any who might in his opinion be injured by it, just as is done in the case of acute diseases in ordinary hospitals. If there was any chance of an overflow of pupils (an unlikely thing in my opinion), it would be easy to divide them into several classes, each to have admission to certain wards only. It is no advantage to a student to have scores of patients under his eye, at the same time. Infinitely more instructive is it, to confine his observations to such a number, as his mind can easily embrace, so as to digest and comprehend their peculiarities. To benefit by his opportunities, he must not only observe, but think and compare, and in doing so, the physician may help him most efficiently, by a few judicious

DrWebster, who has recently visited France, mainly to acquire information on this interesting subject, tells us, in his recentlypublished paniphlet, which may be cordially recommended to our readers :-

Esquirol gave lectures on mental diseases at the Salpetrière; subsequently M. Mitivié, one of the present physicians to the hospital, delivered lectures on the same subject: but whatever may be the importance to medical men to possess an adequate knowledge of this class of

study of insanity, by lectures and clinical instruction, bas, notwithstanding the very great impulse given to this part of medical education at, and subsequent to the time of Esquirol, been much neglected in France, both by masters and students. However, as the new Liw of 1878, and the ordonnance of the King of 1839, impose upon all medical men, and especially upon those who may henceforward be appointed physicians to lumatic establishments, the necessity of being well versed in a knowledge of the principles and the Conneil, and as that bedy, unfortunately treatment of mental diseases, a fresh impotus has been given to the subject. Mr. Baillarger, one of the physicians to the Salpetricre, commenced a course of lectures on diseases of the mind in 1811, including clinical instruction, illustrated by patients treated in the Salpetriere. On these occasions, M. Baillarger used to introduce to the students the insane person, upon whose case he lectured, and no bad effects ever followed these demonstrations. Indeed, upon this point, it is impossible to give better evidence than the subjoined extract from an official report made by the director of the Salpetrière to the supreme council of the Parisian Hospitals, in consequence of that officer being deputed to attend all the lectures given by M. Baillarger, and to see whether or not the clinical illustrations were detrimental to the insane patients introduced to the class. M. Censier's report, which I am fortunately able to give, has the following paragraph: -

" From forty to sixty auditors usually attended the lectures, all in excellent order, and everything went on with the greatest propriety. The patients did not appear to feel any disagreeable impression from finding themelves in the presence of the public, and they had no direct communication with the students. In short, I can affirm that, in consequence of the precautions taken by the council, and the prindence of the professor, the elinical conferences of M. Baillarger have been profitable to science, without producing any inconvenience to our patients, who were called upon

These lectures were, I know, much appreeiated by the students, who were, throughout, zealous in their attendance; and the periodicals of the day, and the medical profession, thought them creditable to the professor, as well as highly useful to the young practitioner. Nevertheless, and in opposition to the above most favourable report from the Director of the Salpetriere, who had no object whatever in sanctioning any proceeding injurious to the afflicted patients under his jurisdiction, the supreme council of the Hospitals of Paris, last spring, did not allow M. Baillarger to resume. at the Salpetriere, the clinical illustrations of his course of lectures on mental diseases, as in the previous session. In consequence of this refusal, which, to say the least, was both arbitrary in principle, and injurious to science, M. Baillarger gave no clinical demonstrations in 1842; and his lectures from necessity only embraced the general principle of mental diseases, their nature, and treatment. This proreeding on the part of the supreme council of the Parisian Hospitals, may appear singular, and quite inconsistent with the liberality hitherto characterising most of the public functionaries connected with education in Paris, and in France. But new views seem to have taken possession of the minds of some members of the above Council, since that body not only refused permission to M. Baillarger to continue his clinical lectures at the Salpêtrière, but they have also, it is said, thrown diseases, it must be confessed that of late the difficulties in the way of students attending and the treatment be inculeates, consistent with

cases of midwifery; and it was even feared they would interdict the autopsy of all patients dying in the Parisian Hospitals, unless with the permission of friends, where that was practicable. However, the whole medical profession rose as one man against such an innovation, when it was first whispered abroad; so that the proposition, if it had ever been in contemplation, was not seriously brought forward. Nevertheless, the above circumstance shows the feelings actuating some members of for medical science, contains only one professional man among seventeen poblemen, deputies, and high officials, the fact of not continning the permission granted the previous year to M. Baillarger, appears the less remarkable; but, perhaps, next season, they may be led to reconsider their decision, so as to give every facility to the promotion of sound and practical education on this most important branch of the healing art,

At Bicêtre, also, lectures, till very reeenty, were delivered by M. Ferrus, who numbered 151 pupils on his list.

At Salpêtriere, at Bicètre, and at Hanwell, the plan of giving cludeal lectures has succeeded: the patients have been benefitted by the novelty-the pupils inproved-the physicians stimulated to more active exertions, - why shall it not be tried more extensively! Is it not a matter worthy of the consideration of the governors of all such institutions, and, above all, of a paternal Government, to whom the prevention of a fatal malady, of so hereditary a tendency, ought to be an object of primary importance?

REVIEWS.

A System of Practical Surgery. By WILLIAM Figure 8808, F.R.S.C., Professor of Surgery in King's College, London; Surgeon to King's College Hospital, &c., &c.

However much we are inclined to review in a fair and even favourable spirit, the useful little work before us, we are constrained at the very outset to say that we are surprised that the author should have been either so vain or so imprudent as to affix the dignified title of "System" to his production. The work is neither systematic as a whole, nor in the disposition of its subordinate parts. It is simply a Manual, or Compendium of Practical Surgery, and from the Incid manner in which the subject is discussed, as well as from the excellence of the wood-cuts, by which the text is illustrated, it cannot fail, we think, of being popular. The elementary nature of the work precludes a lengthened analysis in our pages. Our survey must, therefore, be of a general kind. The author divides his subject into five parts. In the first or introductory part the "elements" of practical surgery are adverted to, and then a part is devoted respectively to the upper extremity- to the lower extremity-to the heart and neck- to the chest, abdomen, and pelvis. Our author seems to have aimed not at explaining or clucidating the more difficult branches of surgery, but in furnishing an epitome of facts regarding the treatment of all the usual or common surgical affections; and he has successfully accomplished his purpose. His descriptions of diseases, so far as they go, are generally correct,

the most approved practice of the present day, and either founded on the basis of his own experience, or on a critical knowledge of the opinions and practice of others. As illustrations of the nature of the work and as favourable instances of our author's manner, we shall transfer to our pages his opinions on two very important subjects; the comparative merits of amoutation by the circular incision, and by flaps, and the treatment of vesical calculus With regard to the first our author remarks :-

"It is impossible to argue that non-union, suppuration, protrusion of bone, exfoliation, tumours on the ends of nerves, and so forth, have not followed the circular operation,—all these evils must be admitted; but the same results have occurred from the method by flap. It is, indeed, difficult to imagine why the circular incisions should cause all the above troublesome results, whilst the flap method should avoid them; for my part, I hall not feel convinced on the subject, until I see that such is really the case, -until I see a certain number of amoutations by these two methods, done by the same surgeon, or by two who are equally competent, and find all the evils on one side, and the advantage on the other. It cents to me that some such proof as this is still wanting for the surgeons of the present day. Tell not to be exerbooked that some of the most distinguished in the profession have almost invariably performed the circular operation, and surely all the stumps formed by the e gentlemen were not so lad as the advocates for the tap would lead us to appear. I believe I am correct in stating that, even in the present day, more amputations are done by the eircular than by the other mode; and, lifteen or twenty years back, I imagine that not one surgeon in fifty ever thought of performing any other operation than the circular. I know of excellent practitioners in large practice, who have never seen the flap, and can youch for the excellence of the stumps made by these gentlemen.

If a circular operation is improperly performed, the whole catalogue of evils may result; but the some may oncue from the method by flap. I do not here speak from conjecture, for Playe seen as therough protrusion of bone after a flap operation as after a circular. If, in the latter, the incisions are made directly down to the hone, no adequate provision being made for covering its cut end, or if the operator has failed in doing so, then there is no calculating what may follow: if, by the other operation, the flaps are not made well, -too short, and selected from improper parts of the limb, the some evils may ensue. In short, in so far as my experience goe, the evils resulting from one operation may be as great as from the other, according to the manner in which each is performed, the nature of the coverings, the condition of the parts, or of the constitution; and all, too, must be the result of a badly-performed operation by either The latter circumstance constitutes, I believe, the main part of the difference between the two, as a circular operation is much more likely to be ill-done than one by flap. It is, in tact, a more difficult proceeding, or at all events there is greater chance of a mistake occurring in the one than in

The chapter on stone in the bladder, and on the treatment by Solution, Lithotrity and Lithotomy is both full and satisfactory, and tends to impart a very favourable view of our author's judgment and scientific and literary acquirements. We are sorry we cannot transfer the whole chapter to our Journal, for our readers would find it both interesting and useful. On the solution of the stone our author ob-

Various solvents have been used on these occasions, from simple water to nitric acid—the latter being so weakened as not to injure the mucus lining of the bladder. Hales was aware of the power of a solution of carbonate or subcarbonate of soda over certain kinds of calculi, and the efficacy of the Vichy water, whether as an internal or as a local carbonate of soda which it holds in solution. Dr. Rutherford used lime water; Dr. Ritter, caustic potash; Sir Benjamin Brodie, nitric acid -- all, of course in a diluted state. Dr. Hoskins, of theirsey, attirms that he has discovered (by an elaborate process, if I understand him eright) an effectual and rafe solvent for phosphatic calculi, and only awaits the result of some trial snow making with it, to give the formula publicity. Graithnisen, although seemingly impressed with the vicages of simple water, entertained the idea that the strength of its current might have no inconsiderable influence, and so (perhaps with more mechanical ingeneity than surgical discretion) proposed to en by a streen through his double eatherer by a tube communicating with a reservoir on the lopof a two-story house! Professor Anrive, of Geneva, was of opinion that injections of water had caused such a change on a large valculus in one of his female patients, that it broke down into many fragments.

This method of treating stone may now be more favourably resorted to then in former years; for, instead of the periphery alone being attacked, the object may be previously broken into fragments, whereby a vast extent of additional smale may be exposed to the dissolving and disintegrating influence of the menstraum.

The fluid may be excited into the bladder by means of a catheter and syringe,-the latter such as is a cd for hydrorde,-or one made longer on purpose, or a caoutchene I a with a proper nextle may answer. A double title of confederal as to resemble externally a common casheter shadbetter be used, whereby, if it is defined, a confirmed stream may be kept up. For this purpose Haby, Graithuisen, and other, used the instrument like a syphon,-a di h with a communicating tube being kept above, another below. Λ Read's syringe may be applied for the purpose. and such a rapparatus I have lead by me for many years. A flexible caoutchoue eatheter may be used on the coccasions; silver, however, is generally preferred; and when Sir Bajamin Brodie injected nitrie colid, the catheter was made Mr. Wells has lately constructed some in trument, in the form of those which I have used, and had them gile so that they will redist the action of my ordinary solvent,

With regard to lithotrity we have the following remarks :--

In modern times the methods of driffing, percursing, and cracking the stone into sand or eno such small fragments a to pa - away spontaneon dy, or to be removed by appropriate in traments, have been deviced, proposed and carried into execution, with the excellent motive of savi is the necessity for resorting to a cutting operation, which until within these twenty years was deemed the only certain method of cure, - although one attended with so much difficulty and hazard as to make it in every respect a last resource.

Like many of er novelties, lithourity has undoubtedly been too much vanued by its professed advocates and performers; but it is equally clear that in many instances it forms an admirable substitute for lithetomy. Netwithstanding the reputed access of Civiale, it seems to me that in the pre ent stage of its history we have not sufficiently anthentic data by which to determine the comparative safety of lithotrity to that of lithotomy. but regarding the applicability of the former, and even its superiority in many instances, there need be no doubt. Years must yet clapse, and the peration must be tested in our public hospitals by the came class of surgeons as those on whose proecodings the statistics of lithotomy have been founded, before an autiessed professional judgment can be given on the subject.

There are certain circumstances adver e to the success of lithotrity, which should always be inquired into, ere it is determined to resort to this operation. The dismeter of the arestra before the age of pulcity is most unfavourable, both on account of the smallness of the inscriment which must of necessity be used, as also that the feagremedy, depends, in a great measure, on the bi- ments cannot pass away in such large portions.

Besides, in cirtly years the urethra and bladder are more insitable -less callous to the contact of the needful appointus. At any period of life a small methra is objectionable on the above grounds. whether there be stricture or a natural want of deyelop nent. Any obstruction to the free passage of instruments or of urine, must be a great hindrance, and in advanced years, the natural enlargement of the protate, and what may be termed the diseased enlargement, present impediments which the utmost still may not be able to surnount. Should the bladder be sacculated—a condition which can scatedly be ascertained on the living subject -the chances of success will be further diminished; for, supposing the stone to be broken into v bons fragments, the probability of some of these lodoing in such pouches, must always render the results of the proceeding uncertain. my own experience I should say, that the most formidable objection to lithotrity is the apparent irritability of the urlnavy organs if the patient does more then wince while being sounded; if the applies for of the steel to the uredra seems to occasion pain-I mean more than that sensation which patients it hally have on such occasionsif the mirrous surface of the bladder is so tender a. to canse the contact of the instrument to be horne with difficulty; and if the muscular fibres are excited to such violent centra tion as to occasion the evacuation of the fluid contents along the side of the ingrament, or to excite an irresistible desire to mietria;, then assertedly the circumstances are possible by unbecommittee to the proceeding. A stricture next be cured; the natural calibre of the proflex may be increased by dilation; even in ease's cales the objectionable state of the produte may be in some measure overcome by means of large eatheters, scoops, and proper position whilst voiding urine; but the irritabilityexcitability. I may call it—and tendency to inflammation, which are almost certain accompaniments, cannot to readily be coved with. It is very certain first in some instances the organs become more callings a ter the application of instruments; but it is equally certain that the conditions above reforced to of en rather increase than otherwise, after the first cound, or third sitting; and, in addirion, that in certain cases, where the conditions have not been by my means conspicuous before the operation, they have been so developed as to retard the whole proceedings, making each sucecoling attempt more painful than the preceding one, so that the cure (if cure it can be called) is ultimately completed amidst the most miserable infle, ligs - miscrable to the patient, and dibeartening to the surgeon, when, from time to time, as a avourable opportunity presents, he has again to resume his attack; upon the original cause of the suffering-the stone -which may at this time be already comminuted into a variety of fragments.

While I do not besignte to assert that the above picture is by no means overdrawn, it must be admitted that the effects are very different in the majority of cases in which lithotrity is properly applicable; and here, be it remarked, there is a vast difference between such examples and those in which, nufortunately, it is attempted; for when the circumstances are favourable, viz., when there is a large and callous irrethra, a capacious and apathetic bladder (it I may so call it), with good musenfor power, a healthy prostate, and a small or moderately-sized stone, the operation may be done once, twice, or as often as may be required, with as little autenovance, to the patient as if he were only undergoing the treatment for stricture.

Our space will not admit of more extended extraction from the work.

As a manual of practical surgery, we can recommend it to the medical student. The work is of too elementary a east to add much to the well-caracid reputation of its learned author, but assuredly it will not diminish it; and we hope it will prove the happy forerunner of those more original and splendid efforts in surgical science, of which we know him to be capable.

Ch mient Manipulation, &c. By MICHAEL FARADAY, F.R.S., &c. (Third Edition Revised.) London: John Murray.

WE know of only one class of persons who will not bail the appearance of a new edition of Faraday's Manipulation with delight. We allude to the second-hand booksellers, who, during the last two years, have sold such old copies of the second edition as they could procure, for double the price at which the work was originally published!-Few authors can boast of a similar compliment. In the preface to this edition, the author states that it is little more than a reprint of the preceding one,-" circum tances of health and occupation prevented its being otherwise. The validity of this highly-gifted and amiable philosopher's plea is, unfortunately, so well known, that criticism on the subject of omissions relative to manipulations of very recent origin, would be unfair,-still our regrets are not the less, that the delicate processes of organic chemistry, as perfected in the German school, and the management of recentlyinvented Voltaic combinations, together with the process of Electrotype, are not fouched upon in the third edition of this very valuable treatise.

"Pealth of Town"," A. E. a mation of the Export and Evidence of the School Committee, Sc.—Snow.

Thus is a pamphlet defensive of "the vested rights" of dissenters to their town hurial places. Two positions are maintained with equal boldness,- the harmles ness of the present system to public health, and the injury to dissenters' interests of any such mea are athat proposed by Mr. Mackinson. The author, we think, sucreeds in establishing the latter position - as he egregion by fails in his attempts to raise the former. There is much power of ratire, a happy command of ridicule, with no want of amu in a and apt illustration, spread throughout the book, - but no abilities can varnish over the horror of the present system of interments, or di prove their mischievous influence either on morals or health. If they could, we should ask with the writer, and with more reason, "Has common .cnse abdicated her ancient throne in favour of a new occup mt?" The appear dice of this pamphlet is one of the indications of the vigorous opposition prepared by the dissenting body to Mr. Mackimon, and attests the wisdom of an early remark we made on the imprudence of raising, as he has done, needless resistance, by interfering with more interests than were necessarily opposed to him.

The Mineral Springs of England. By Edwin Len, Eq., M.R.C.S.

WE have a precursory favourable judgment of a book which, like this, is small, though on a big subject—and after perusal, in this case, has justified the preposses ion. Mr. Lee's coup d'ad of British watering-places is that of a master. Everything unimportant in his ubject escape: notice -while everything which is of value to the invalid, or the inclical man, he seizes with intuitive sagacity, and places before his readers, with a precision and concise elegance, which makes his little book a treat even to the fastidious scholar. There is, however, one part of Mr. Lee's arrange ent which does not please us. We have, first, a preface-secondly, a postscript-thirdly, an "avant propos"—and, fourthly, thirteen pages of "Introductory Remarks," before we get to the book itself, - and, finally, when the "book"

· buished, and the printer's name duly annonneed, we have an extra page given on Artesian Wells, for which awkwardly supplementary form there appears no excise, inamuch as it bears date, North, 1840, while the preface is dated, December, B.10. The book is thus made (erroneously, we believe) to begin it career with a shew of literary dandyism, and finishes it with a demonstration of nceligence for too slovenly to be graceful. All this, lowever, may be mended in a second edition, which we heartily wish the author. As a pecimen of his (y'e, we give his remade explanatory of his views on the action of mineral waters on the system. Our readers will observe that the reading of the author, and that of Dr. Islamach Hall, have non-much in the same direction,

Ha ion of the solid par, of the body, and changes of structure, have been two exclusively considered mestigrating the diseased condition of parts, while the alt red state of the fluid, and of the nervous induction from which so many, particularly chaorie di eases, originale, has been from the days of the humoral pathology until litely, ten frequently overlooded, or regarded only in the light of an officet. Indeed, a late of amonished physician considered a merbid state of the blood, and of the un controllablings, as the soft corns of chronic discour, and observed, a President me in the helpit of recording the old parts as the primary ments of life, to which it, staids are shortly the; but, on the confrary, the blood and the nervous ulctains or the primities and esential in truments of all the organic functions, while the solid parts occupy an inferior grade, and are but of secondary importance in disease. The chanents of concrat and internal disea e, or the morbid predispositions which form the most insportant objects of treatment, many them all he reduced to vitiated states (dysero to) of the Idood, and of the lymph. or to derangement of the nerson system."

The : Contion of the profession, both in this country and on the conti-ent, has however, of late year been more realised ally directed to the primary done in the function of the maryon. tem, and in the ble aboved corretions, to which the more always. I staff of organic elemistry has noticially contributed, and has tended to chiefd to the puthology of eyes of discases. Thus, it is now as critical (but the quantity of fibring is increased in ; ishlate in Later , not an earlier in philisi ; in to settle innormation, in the every purious 1: in the block is watery, and in the last stage of this discussing arcsearchy to contain any fibrine. In reast chronic discuss the quantity of fibrine in the blood is disnipolarly. The blood of females is more watery than that of scale , and diat of children and old person is also more so than in healthy adults. According to the microscopical investigations of Schule, the globules of blood are not entirely that I, as has be a supposed, but are hollow bladders into which air is absorbed in the process of respiration. By the continued use of educalis the blood is rendered incre fluid, the congulation of its fibrine is prevented, and it colour becomes brighter; on the other bank the use of nitric held produces en inflammatory coat, after the exhibition of certain narcotic substances, the Idead becomes more fluid and darker coloured. The quantity of iron is in direct proportion to that of its red globules; by the abstraction of blood, the iron is diminished, and by the exhibition of the preparations of this inclub, the filatine is increased, and the blood assumes a brighter red colour. According to Dr. Carswell, tubercles are never formed when the blood is not in a diseased state. Crystals of the salts climinated in your have been found by Jahn in the blood of conty patients.

The experiments of MM. Prevost, Dunas, and Müller, have thrown considerable light upon the action of particular substances on the blood. Thus, it was observed in a freg, that when a drop of water comes into contact with a drop of blood, the

globule, which has naturally an elliptical flattened hape, becomes round, and its course is accelerated. When, however, the experiment is made with a . Fine solution as common salt, or subcarbonate of pota 3, in water, no alteration of form occurs. The dimension of the globule is after all by contact with particular substances; thus liquor pointset though it does not alter the form of the globules, renders them smaller; - a minute quantity of pure soda added to the blood abstracted from a vein prevents its cose dation. Acids produce increased exidisc tion, compilation, and redness of the blood, whereas the action of alkalies is more solvent, rendering the blood thinner and more liable to decomposition. It has been also demonstrated by experiments on rabbits, that iron is absorbed into the blood only in a limited proportion, the remainder of the quantity given being exercted *

Alterations in the quantity and chemical composition of the different secretions, it is well known, may depend upon the influence of the nervous system, and of an eltered condition of the blood, either occurring from morbid causes, or from the introduction of particular substances into the circulation of which the flow of tear: from mental emotion, the change in the urine of by terical patients, increased alkalin'ty of this secretion from injury or di case of the nervous centres, the calcareous concretion deposited in the joints of gouty persons, may be mentioned as familiar examples; hut the against of the organic person in producing these changes, both in the blood and seer tions, and in juducing various diseased states, is not in general sufficiently considered. Scirrhous tumous, for example, are not unfrequently caused by depressing emotions, as grief, anxiety, &c., acting primarily upon the cerebro-spinal system, and consecutively upon the capillary vessels of the part; so, in like manner, indurations of viscera, and other local functional and structural changes of organs, may be induced by derangement of the functions, or by direct he don of the sympathetic or organic nerves, which, writed by phynerous inosculations with the c of the cerebro-spinal system, extend their influered to all parts of the body, and which have been proved, by the experiments of M. Brathat, to provide over the action of the capillary vesel, and of the functions of nucrition and se eretion. An anomal condition of the organic nervous system, or part of it, frequently depends upon alteration of the quantity or the quality of the blood by which it is nomished; and when this is the case, it does not fail to react upon, and increase the disordered condition of the vascular system. When, several years ago, it was observed that a section or mechanical Tesion of the branch of the lifth pair of nerves supplying eye produced increased vascularity, with subsequent sloughing of the cornea, acute inflammation was supposed to have been produced by the experiment, and to have given rise to this result. A similar effect, however, was subsequently found to ensue in animals which were fed upon sugar or other substances in too concentrated a state to afford them proper nourishment; and M. Brachet clearly demonstrated that the circumstance did not depend upon inflammation, but simply upon mechanical di tension and consequent obstruction of the circulation through the capillary vessels, from their privation of neryous energy. He observes, "Let us remember that the ganglionic nervous system presides over the sceretions and expillary circulation. When, therefore, in consequence of lesion of the gauglionic nerves of an organ, its secretory and capillary ac-tion are paralysed, it does not cease on that account to receive blood, as this fluid is forced into the yes, els by the contraction of the heart: but no longer finding in the capillaries the energy necessary for their reaction, it gradually distends them and remains almost in a state of stagnation, puffs up (bourseugh) the parts where the textures are sufficiently lax to admit of it, and determines reduces and welling as in the conjunctiva." †

⁴ Krey ig. Des Ean v Minerales Naturelles et Artificielles, &c.

[†] Schmidt's Jahrbicher der Medicin.

^{*} Schwartze, Allgemeine Heilquellenlehre, Leipsie, 1839.

[†] Du Système Nerveux Ganglionaire.

have been considered as inflammatory, are not so but depend upon impaired nervous energy, and why depleting measures would be prejudicial. while those calculated to give tone to the nervous system would be most successful; why the spleet should be so frequently congested after attacks of intermittents, while the more dense texture of the liver is comparatively seldom affected, and why quining tends to reduce the splenic culargement; why the congested state of the vessels of the eye in that state which is termed strumous ophthalonia should continue so long without producing scrious injury; and why, though the local abstraction of blood may occasionally be of service in relieving the congestion, its too frequent repetition predisposes to relapses, which are best prevented, and a core most perminently effected, by tonic remidies and local stimulants, which strengthen the system generally, and excite the torpid and relaxed vessels to action. Chilblain is another illustration of the same principle; congestion taking place in parts of the body remote from the centre of circulation, when their nervous energy has been depressed by cold. Dropsical effusions also very frequently occur in the same manner, the scrum of the blood transading through the capillaries into parts where the cellular texture is lax, and whence the blood meets with obstacles in returning to the heart. Soft-uing of the nervous centres, and paralysis, doubtless occur not unfrequently from the same cause, viz. deficiency of mutrition of their ubstance, from the nervous energy of the capil-Lifes being impaired, as is pretty evident by these diseases most generally occurring in elderly perons, and those in whom the vital powers have become depressed. I have met with several eases of paraly-is consequent upon excesses, from the influence of malaria, &c., or occurring idiopathically, in which the too indiscriminate use of blood letting, and other depleting measures, had been extremely prejudicial, and in which the subsequent us of a tonic regimen had been productive of the highest benefit. That a diminution of the organic nervous influence of the capillaries of the nervous centres is frequently the cause of congestion and its consequences, is clearly shown by an experiment of Brachet. After removal of the upper cervical gaughon in a dog, the eyes became red and tumefied. as in the other experiments, come supervened, and after the animal's death the capillaries of the brain and its membranes were found to be gorged to the ntmost with blood, on which Brachet justly remarks-" Hence many diseases, apparently of the brain, have, in fact, a very different origin. Suppose the occurrence of an analogous instance to the above-mentioned experiment -symptoms of disease of the brain takes place, the post-mortem examination demonstrates pathological afterations in this organ, the consequences seem to be natural. and yet it is nothing of the kind; the brain has only become diseased secondarily, the organ truly affected is the ganglionic system, the action of which being paralysed produced the phenonoena which the brain presented. If the dimination or the abstraction of the influence of the ganglionic system could so frequently occasion the phenomena observed in the preceding experiment, may we not reasonably bufer that the same thing will take place whenever this influence is modified by any pathological affection of the upper part of the ganglionic system

EXCIRPATION OF A DROPSICAL OVARIEM. Mr. Henry Walne gives, in the Medical Guette, a successful case of this kind, where the removal was effected by the large incision. The operation, which oppears to have been modelfed on the eperformed by Dr. C. Clay, (as given in recent numbers of our Journal) took place on Nov. 7th. On the 11th, bad symptoms appeared, which, however, were overcome by the 13th; and, by the 29th, the patient felt quite well; the wound being healed, with the exception of a seton-like opening at the lower end of it.

DECEMBER 21.

(Sitting at Nest Prins, at Guildhall, before Lord Chief Justice Timbal and Special James.

BLALE V SULE.

Sir T. Wilde, Mr. Hoggins, and Mr. E. James conducted the plaintiff's case, and Mr. Serjeant Talfored and Mr. Butt that of the defending.

The action was for slanderons words spoken of the plaintiff, who is a surgeon and acconcheng residing in Bedford-square, Stepney, by the defendant, who is also a medical practitioner, and a near neighbour of the plaintiff, on different occasions in the month of Dicember, last year. The defendant pleaded -first, the general into a secondly, as to so much of the third count of the declaration as relited to the speaking of the words that a Mrs Neek was improperly treated by the plaintiff, that she did receive improper treitment; and, thirdly, as to the use of the words mentioned in the second count, " that the plaintiff was a desecting room beadle," that such words were time.

Sir T. Wilde stated the case to the jury, and called the following witnesses, -

Mr. James Norris,-On the evening of Wednes, day, Dec 29, last year, I was at the house of Mrs. Hough, between 6 and 7 o'clock. Mr. William Rowland, collector of poor-rates, was also there. The defendant was prefent. Mr. Rowland said be had heard that the defendant had been to Lambeth street police court, and that he knew what the defendant had been there about. Some conversation took place between Rowland and the defendant about an inquest which was to be held on a person whom I afterwards ascertained to be Mrs. Neck. The defendant said that the plaintiff, Mr. Beale, was incompetent to practise as a medical man. The defendant said to me, "If you were i", would you call in a waggoner to attend you?" I said that Mr. Beale was a surgeon. The defendant replied, "He has never been anything but a surgeon's beadle to a hospital or dissetting-room," and that Mr. Beale was not a surgeon.

Cross-examined,-I have been fold that an action is pending against the plaintiff, which action has been brought against him by the Apotheenies Company for practions without a certificate com-

Mr. Lilward Porter examined .- On the 27th of December last I had occasion to go to Lambethstreet po'ce-court, and there I saw Mr. Self, the street po ce-count, and to see about to sun non a defendant. He said, "You are about to sun non a jury on a coroner's inquest upon $M \subseteq \operatorname{Neck}$." He said, "You have seen Mr. Dale this morning; my name is Self," Mr. Dale (the defendant in a similar action) had before this mentioned Mr. Self's name to me. The defendant said, "The deceased Mrs. Neck, has been very improperly treated by Mr. Beale, who is no surgeon, asked hen what he particularly wanted with me, He said it was about strumoning the jury. asked if he wished to be one of the jrry. He said I might summon him. I filled up a summon vin the polic court, and gave it to him then and there. I had a warrant from the coroner to call the jury on the 30th of Dec. I told the defendant that Mr. Dale had told me that morning that Mr. Beale wanothing but a quack, and I said, "Thate quackery as much as any one, and you may be one of the jury." I also said, "I wiⁿ summon a jery of docfors, if you will give me a list of those properly qualified." It was agreed that I should call on the defendant, previously to summoning the jury for that "st. On the moreing of the day for which the inquest was summoned, I called on Mr. Self for the list, 4 asked Mr. Self if he led prepared the list, and he said "No; we have a scertained that Mr. Beale is a surgeon, and we intend to let the affair take its natural course," I said, "Then I shall summon a respectable jury," and Mr. Sel(said he should attend. The coroner's inquest was held that evening before Mr. Baker. Mr. Self was not on the jury. Mr. Beale was there; so was Mr. Bennett, and Mr. Farrer, and Mr. Dale. Mr. Neck, the busband of the deceased, was present. Mr. Self put some que tions to Mr. Beale, but not so many as Mr. Dale did. Mr. Pearce, a medical

Hence we may see that various states which COURT OF COMMON PLEAS, WLDSL-DAY, the jury and they thought Mr. Boale had treated the deceased in a very proper manner. I have not seen the definding success I was led to believe I was led to believe, from whit Mr. Self had told me, that Mr. Beale was not a surgeon.

> Cro. egxamined,-I am an anctioneer and appraiser, and summon the jury for the constable, who is nowell. I never saw Mr. Beale till I summoned him to affend.

Mrs. Letitia Serab Josephine Bure examined,-Thre in King (reef, Stepney, My Intsband is an officer in the Customs, In Pecember, 1844, Lexpected to be contined. It sent my sister on the 29th of November to M's Beale's Jouise, to tell him to hold himself in readmess to attend me. I know Mr. Self as a medical man, who had attended me twice. Mr. Beale called upon me on the 2d of December. After this Mr. Seth called on me, and I told him that I had intended to send to him, as I did not fluid, it right that he should be kept in ignorance that I did not wish him to attend me in my coming confinement. Mr. Self seid, "Why? could I find any finit with him? I told him no, I did not. He then said, "Did I blame him for anything that had happened to the children? I had lost some children before this. I told him no, I did not, it would be very wrong to do so. Mr. S. H. a ked me to consult may husband on the subject, and said he would call the next day, and hear what I had to say. The next day he called. I told him I had made up my mind to call in the gentleman I had mentioned. I had said the day before that I should call in another gentleman. He then asked it was a fair question, if I would tell him whom I intended to employ? I told him I would make no secret of it; it was Mr. Beale, of Bedford-square, Stepney. Mr. Self said he thought it was something of that kind. He said, "Was I aware that Mr. Beale was an unqualified practitioner, and hable to be prosecuted every day? I told him that I was not aware of anything of the kind, and I I new he had attended my father for some time; and that my father and friends generally wished me to employ him. He asked me whether my father intended to give meanything, because, if so, he had better do so when it would be of some good to me, and not wait till I was dead, Mr. Self said if 1 wished to charge, he would recommend some one to me of experience, but not Mr. Beale, who had not any experience. He said I was to tell my husband and my father that if any thing happened to me, he would call a coroner's inquest on my tody, and have the matter properly investigated, He said, "There was no such person as Mr. Thos. Peale, a surgeon." He said that, as if he believed that there was no such a person. He had said before that Mr. Beale had been a headle to a hospital, and that he had had no proper medical education. I asked him what a beadle was, and he said it was a man who had to clear away the guts and garbage. He said that there something on foot about a coroner's inquest. The same evening I was taken ill, and sent for Mr. Self. I did not send for Mr. Beale, in consequence of what Mr. Self had said, My confinement took place on the 17th of Dec. The conversation I have been speaking about took place on the 3d of December. Lafterwards sent to Mr. Beale, and explained to him why I had not called him in. This was about three week after the 17th of Dec. At that time I informed Mr. Peale what Mr. Self had aid of him. Afterwards I told Mr. Self that I had seen Mr. Peale. Mr. Self-said, that he had since ascertained that Mr. Beale was a surgeon. I said I was very sorry I was implicated in it, and that I had rather it had been any other person. Before this I had been fold that my evidence would be required; that caused me to make the obervation. Mr. Self said that I had no occasion to say anything. After wards he said that he had heard I had been with Mr. Beale to his lawyer,

Cross-examined. It was either in the latter part of January or the beginning of February that I went to Mr. Beale's lawyer. I have been twice there in all. What I said was written down, but I did not require it. Mr. Beale has attended my father, and I think his complaint was crysipelas. He also attended my sister, but I do not know what man, also asked some questions. I was myself on the complaint was. Mr. Beale sent medicines, the jury. The verdict was "Natural death," and When Mr. Self told me that he had discovered that Mr. Bea'c was a surgeon, he said that Mr. Berle became a surgeon in Jely 1844. He said he had nothing to say against Mr. Beate as an acconcheur, because anybody had a right to practise midwifery, but he said he had no right to administer. medicines.

Re-examined. When he said this, he added that Linight as well employ a midwife, for that if I did, and anything was to happen, I could soon send for a medical man, but that when a gentleman was cuiployed one one ht to be able to place confidence mhio. I told Mr. Beale's Jawyer that Mr. Self had spoked to me on the sabject as a friend, and 1, therefore, declined to say all that I have said to-day I paid a guinea for my confinement, exclusive of medicine.

Mr. C. Neck examined - I am a schoolmester, and five in Ph (pot-street, Commercial-road. A have known the plainful about four years. I am the hu heard of Mrs. Neel, who died on the 25th of December last.—Mr. Beale had attended her.—She had been ³⁰ just none days. Her illness was sudden, and was owing to a twisting of the bowels, or something of that kind. Mr. Beale, so far as I could judge, treated her ski felly for that disorder. Mr. Beale brought Mr. Farrer to see her. Mr. Farrer is a surgeon and apothecary in the neighhourbood. Mr. Beale attended my wife all the time of her illness but the fourth day, which was Sunday. Mr. Beale left me at 10 o'clock on the Saturday evening, under the impression that he had done all that could be done under the circumstances. On the Sunday morning Mr. Beale's son came to ask how Mrs. Neck was, and I told him she was much worse, and I wished him to go for his father directly. He said that his father had gone by the first hoat that mo, sing to Gravesend, We then sent for Mr. Bennett, a medical man. Mr. Beale returned that evening, and came to my house. It became a question whether he should continue his attendance, and my wife said "Mr. Beale;" thereby implying that she wished him to attend her. Mr. Beale first intimated that there was danger on the Irriday morning. I believe that Mr. Farrar was aware of the treatment pursued. After my wife's death I allowed a just mor tem examination to be made. Mr. Farrer and Mr. Beale attended it. The day after the exercitation Mr. Self called on me, and asked me what was done in the first instance? I told him that Mr. Beale administered whatever medicines he thought proper; that he was constantly in and out, and that whatever he directed was done. Mr. Self asked if leeches had been applied; I said, yes, six. He said, that at least forty or lifty ought to have been applied. Mr. Self said, that Mr Beale was nothing but a porter, and that he had no more right to practise than I had. That was all that he said to me, with the exception of a few remarks about his standing forward for the respectability of the profession. I recollect the inquest on my I had taken no steps to call one, and was asionished when I was served with a summons, was examined as a witness. When Mr Self called there was nothing to lead me to believe that an inquest would be summoned

Cross-examined. I have known Mr. Beile four years, and during that time he had attended my family, and sent medicines. I have had five of Mr. Beale's sons at my school at one time. My wife was taken ill on Thursday, the 16th of December. Six leeches were applied at once. No warm bath was used. A small bli ter was applied to the pit of the stomach on the Saturday.

Re-examined.-Mr. Beale ordered foundations in the middle of the day as hot as they could be applied, and they were continued.

Mr. Farrer examined. I was called in by Mr. Beale to see the deceased Mrs. Neck. When I saw her the symptoms were like those of a person passing gall-stones. I attended the post-martem examination. Mr. Beale operated, and did so in a decidedly skillful manner. A portion of the smaller intestines were twisted or strangulated to the extent of about six inches, and this part was approaching to gangrene.

Cross-examined -I should judge the twisting to

that if more active remedies had been used, and a cited to take a professorship at St. Thomas's. Mr. g e der number of leeches applied, it would have given the patient a better chance. Considering the extent of pain I witnessed, I should think that six lecches were not enough; and in my judgment a great many more ought to have been applied. Supposing that the pain had continued on the Saturday, and that the bowel; were not relieved, I should have thought that I lead been u estation a copposing that the patient was passing galltones. I should not have felt justified it leaving the erre from Saturday to Sanday night without providing a substitute. I consider the case to have been a medical case,

He examined. I wrote down a short statement of the post non-ten examination some little time afterwards. (The statement was handed to the witness, who looked over it.) It is correct. It is there said that the pelse was feeble, the patient very low, and seemingly exhausted. Upon the post marten examination I found the gall-bladder large, and full of fluid. The application of lecches would depend upon the subsequent condition of the patient. I show'd have suspected that there must be acute inflammation going on, as shown by the feeble state of the prise. Electing would have had a good effect if it had been applied nine or ten days before death took place. If she had not got better, I should have bled her till some degree of faintness was produced. I ce mot say how much blood the patient would have lost before she became faint; patients vary so very much. If the case had gone to the public hospitals, they would have taken it as a medical and not as a surgical ease. I am quit clear on that,

By Mr. Serjeaut Ta'fourd. -The seat of the dicease was lower than where the intestines were twisted. The twisting might be the cause or the effect of inflammation.

Mr. W. G. Merritt examined.-1 knew Mr. Beale when he attended at the London Hospital. I saw him there often collecting subjects for demonstration, and engaged as a curator in the Museum. He injected the arteries and velos of the subjects. He also articulated the hones. 1 have seen a person who was ruder him sweep and clean the place. I considered the plaintiff a very promising young mee-

Cross-examined by Mr. Serjeaut Talfored.-1 have known the office which Mr. Beale held called by various names. I know it is called that of dissecting beadle to the hospital. I have also heard that officer called assistant to the lecturer. The person who swept the Maseum was a servant of the dissecting-room. His name was Mer. att. He was no relation of mine.

Mr. Serjeant Talfourd .- Another order of merit, L suppose?

Witness.—I cannot say.

Re-examined. - The opportunities of seeing anatomy afforded to a person holding that office would be the most brilliant of all, and the plaintiff paid the most ardnors attention to his duties while he remained there.

Dr. Charles Waller examined -- I am a physician and consulting acconchent to the London and Southwark Lying-In Institution. I have known the plaintiff ten or twelve years. He at tended two courses of lectures of mine on midwifery, and the diseases of women and children.-He attended with more diligence than most pupils I had every reason to believe that he was a wellinformed man, and as regards the department in which he attended me, I have no besitation in stating that he was perfectly competent.

Pross-examined.-- I have attended several labours with him. I renewed my acquaintance with him about six years ago.

Mr. Frederick Tyrrell.—1 am surgeon to St. Thomas's Hospital. Formerly, for many years, I gave lectures in surgery. I know the plaintiff well. About 1826 or 1827 I became acquinted with him. He then became an assistant in the disserting-room in a school which I was the principal means of founding, in Aldersgate-street. The plaintiff remained there as long as I did, and I be have existed six or eight days. I decidedly think lieve longer, but I left in 1829, when I was soli-

Beale had constant opportunities afforded him of becoming acquainted with the profession, and his attention was unremitting. When he was there he asked me to allow him to attend my lee arcs for the purpose of enabling him to follow the profession at some future period. He attended a course of lecthres in anatomy and physiology which I delivered in conjunction with Dr. Quain, and a separate corese delivered by myself on the principles and practice of anatomy. When I left the school, his knowledge of the profession appeared to me to be very good, and I should say that it was much beyoud mediocrity. In the case mentioned by Mr. Farrer to-day, the case would have gone to the hospital physician in the first in tance, but if the symptones continued the physician would probably ask for the assistance of the surgeon. There mu t he other symptoms than those I have heard described to day to enable me to judge of the treatment that should have been pursued. With the suspicion that there were gall-stones passine, the treatment pursued by Mr. Beale would have been The six leeches were a sort of trial, and if that had been found to afford relief, and the pulse rose, more might have been applied. I should have said that the application of 30 or 10 leaches, when the patient was in a state of extreme depression, world have been a hazardons mode of treatment. It would show a want of skill, as you cannot recal blood. There may be various causes of obstruction of the bowels. It would not have been judicious to increase the number of leeches under a low condition of the circulation. I should say that the obstruction did not arise from inflammation, but from ligature,

Cross-examined.—1 think that inflammation would not have arisen in nine days. Mr. Beale's whole time, up to 1829, was devoted to the school in Alderseate-street. He was paid between 20s and 30s, a week. We termed him assistant cerator. I gave him the certificates produced for attending legal es in the course of the medical sessions 1897-8 and 1828-9.

Resexamined.—When I left the school he was competent to pass his exemination in anatomy and physiology, but not be surgery.

Mr. Aston Key examined—I am a surgeon at Guy's Hospita!. I have heard Mr. Farrur's evidence. I think the opinion might have been formed without impuguing the plaintiff's want of skill, that gall-stones were passing. I think that thirty or forty lecches would have end ingered lift. The powers of the patient would be exhausted by bleeding, and thereby her danger would be in-creased. The case appears to me to have been very peculiar in wanding the symptoms of acute inflammation. From what I have heard, I should say that the obstruction arose from adhesion, and that the case was wholly beyond the reach

Mr. Neck recalled .- Down to the time of my wife's death, her health was pretty good, but she was rather an ailing woman. My wife used to say that her hear appeared to be too large for her body.

The diploma of the plaintiff from the Royal College of Surgeons was put in.

This was the plaintiff's case.

Lord Chief Justice Tindal inquired if Mr. Serjeant Talfourd intended to call witnesses?

The learned Serjeant said that he should be glad of an opportunity of considering the evidence but he would not say that even as then advised he would call witnesses for the defence

An adjournment was then agreed to.

This morning Mr. Serjeant Talfourd addressed the jury for the defence in mitigation of damages, hut no witnesses were called in support of the pleas of justification.

The Lord Chief Austice summed up, and the jury, after some deliberation, found their verdict for the plaintiff, with £100, damages.

In Beale v. Dale, being a similar action against another defendant, the case was concluded by a compromise, a verdict being entered for plaintift, with 40s, damages.

MOLLITIES OSSIUM.

: Fo the Editor of the * Mestic d For ... ')

SIR,-In your report of Mr. Solly's observations on a case of mollities assigna, I observe that that gentleman in alluding to the micro-copie appearances of sections of the bone alludes to the existence of ".ome particlos of matter" which were "believel to be worms. Mr. Solly then decides that these particles of matter are not worms, but " little filaments separated from the bones." The reasons assigned for this decision is, " because the cleaner we cut the sections there was loss appearinge of worms, and, at lost, by the greatest care, not a portion of the apposed worms could be seen in the section."

I beg leave, with great deference for the superior powers of observation with which Mr Solly is endowed, humbly to dissent from this decision, because in a portion of the calvarium which I had an opportunity of examining by the kindness of Mr. Topping, of Brule Street, Liverpool Road, notwithstanding the greatest precautions were used to ensure perfect cleanliness of the cutter, the bodies alinded to were, I think, constantly visible, -1 am sure that their absence was the rare exception, their presence the general rule, for the numerous sections which I examined with Mr. Topping; I am equally confident that what I saw, were not extrançous bodies, but did really and truly exist in the substance of the diseased hone. Whether they be, or be not "worms," I do not presume to judge, being neither miscroscopist, or comparative anatomist enough to form an opinion at variance with one who deservedly ranks high in both capacities, but I take the liberty of addressing there few remarks to you, in order that attention may be given to the microscopic observation of this or any future examples of this disease which may occur, its real nature, equally with its causes being buried in such profound obscurities, it is incumbent on us to use every means in our power to throw light on its origin.

I have the honour to be, Sir, Your obedient Servant, W. B. KESTLYEN,

. Future Surgeon, to the Holosco of and North Tshargton Dispersion . $U=c_0(Holl)\cos w \cdot Doc_0(274h/1842).$

PERISCOPE OF THE WEEK.

SHORT SIGHT. - Those who are engaged in occupations which require the long-continued employment of the eyes on minute objects are more and to become near-sighted than those who are not thus employed. Mr. Lawrence attended a hook-side, and found that out of twenty three persons who were present, twelve of the number were glasses.- Like several other affections of the eye, myopia is sometimes hereditary; the children of short lighted parents being more apt, than others to be affeeted with the disease. All minute occupations, such as sewing, long continued reading, drawing, &c., should be abandoned; the head should be kept erect; the coverings of the neck should be loose; and straining of every kindshould be avoided, to prevent increase of congestion. Mild univritating diet, pure air, active exercise, and the practice of looking at | distant objects in the open country, will be very beneficial. The far discerning eye of the fadian i well known; and it is asserted that neur-sightedness does not exist among the Arabs or Tartars, who are used to roun about,

also which sailors possess of seeing at great dissignantity mixed with the blood in; the right tances is only acquired by practice. An experienced "look-out man" can very soon descry the character and the nation of a distant sail, which, to an ordinal, observer, might seem a mere speck on the accens. Some of the exercises of a soldier increase the power of recognizing di tant olijects. "It was not unu nal." says Reveille Parise, " to decree that among the troops the sight of many near-sighted con-cripts was restored." In the case of a boy born without arms, who possessed the power of writing, Sea, with his toes, Dr. J. V. C. Smith relates that the point of distinct vision was so much lengthened, that the boy could not see at the usual fored distance, so well as at his feet. By the enly application of concave glasses the crystalline is kept in a wrong position, and the efforts of nature to overcome the defect are prevented. - " Give," says Reveillé Parise, " a person with excellent sight a glass lightly concave, and he will at first see less distinctly than with the naked eye. He will, however, soon become so accustomed to its use, that it will not incommode, but even become indispensable to him. Gradually increase the concavity, and you shall see that the organ will change in a similar manner, so that an individual with good sight will, at the end of a few years, become affected with complete myopia, and will ultimately require plasses of the hortest focus."

Effect of Admitting Am into the Veins. - A man, 55 years of age, was received into one of the French herpitals, in October last, with a scirchous tumour on the left side of the neck, extending from a little above the clavide to the lower jaw, in the space between the larynx and the sterno-mastoid muscle. The trength of the patient was wearing away under continual vonsitings of bloody mucus, and the lancinating pains felt in the tumour, the removal of which was resolved on. The man having been laid in a horizonful posture, his head furned towards the right lide, the turnour was exposed in its whole extent by a crucial incision, and the flans di-sected aside, partly with the scalpel and partly by the finger. The tumour was readily separated from most of its adherences, without the exertion of much force. The arteries divided were speedily fied, the loss of blood was inconsiderable, and the operation appeared to promise a lati factory termination, when the internal ingular vein became penetrated with the end of a scalpel, so as to admit a quantity of air. At the lame moment, says the operator, who reports the case in the Gazette des Hospitanx, Nov. 8th, " I heard, progressing from the wound towards the heart, a peculiar noise-a sort of gloveglove-a sound which, once heard, can never afterwards be mistaken. The patient in tantly turned pale, his breathing became quick, he attered a plaintive ery, with the exclamation that he was dying, and searcely a minute clapsed before he was actualty dead. The operator, as soon as possible, placed his finger over the place of the wound, though without any good effect. He, however retained it in that place for several minutes, and noticed that a flux and reflux movement continued in the vein for five or six minutes after life was extinct.— Λ post mortem examination was made twenty four homs afterwards. A gaping oblong--haped opening, about twotenths of an inch (six to cight millimetres) in length, was not with in the jugular vein, three quarters of an inch above the abelayian, and at a point where the treature was found to be adherent to the cost of the vein. Blood pressed upward, and made to exide through this opening, contained numeron globule and to look at distant objects. The power of air. Air-globules were found in great passed their fingers under the ligament, and

anricle and ventricle, the parietes of which were distended, and their contents of a co-Jour decidedly less dark than venous blood generally. The blood in the superior cava, mbelavian, axillary, and brachial veins, and those on the interior of the cranium, also contained air, as did a frothy fluid in the iliae arteries and norta. The left ventricle and the cerebral sinuses were empty. It may be remarked, that death, in this case, happened earlier after the puncture than on any of the many occasions recorded by Annissat, Magandie, &c., doubles, in consequence of the close proximity of the internal incular vein to the centre of the circulation.

THEATMENT OF SCARLATINA .- As searlatina, &c., are the result of poisons inhaled into the blood, and as those poisons, whilst floating in the atmosphere, are destructible by chlorine gas, a correspondent suggests that they may al a admit of being destroyed by the continued inhalation of the same gas, admixed in moderate proportion with the atmospheric air. At any rate, such an admixture of chlorine gas with the air of the invalid apartment would be wholesome to the patient, and protective of others. In addition to the chlorine gas diffused in the atmosphere, water, with a slight addition of chlorine, may be taken as a beverage, for thirst and the condition of the throat, and may be used for ablution of the general

STRANGILLATED HERNIA .- An old woman, aced 73, was admitted into the Marylehone Infirmary, under the care of Mr. Phillips, with strangulated hernia. The history of this case shewed that the symptoms of strangulation had been present eight or nine days, though they had not been very pressing; there had be no stool for eight days. Upon examination after admission, the tumon, which was not large, was found to occupy the right femoral region. There was not much tenderness at the point, nor at any pari of the abdomen; there was very slight tympanitis; there was some nausea, and occasional vomiting, but not severe. The tongue had a slight coating; the pulse was 81. Mr. Phillips pointed out that in people advanced in life it is often not prudent to wait for more decided symptoms, because the powers of life are inexpable of developing them, and because it is matter of observation that they often die with symptoms which, according to the language of works on surgery, would not warrant a recourse to operation .- As it was ascertained that the taxis had been employed for a hour and a half on the previous dry, it was not thought prudent to persevere longer in any further attempt at reduction, and the operation was at once had recourse to. An incision was made in the usual way, and the approach to the sac was cantionally made. A tumour, apparently omentum, and much larger than a pullet's egg, was exposed; it was invested by a membrane which was conceived to he the sac; this was opened, and the director being placed under it, it was incised upwards and downwards to such an extent as was necesseny. The omentum-like mass was now fauly een; it was very vascular, and a large number of veins on its surface appeared so tortnous as to give the impression that they were varicose. The tumour was turned up, but no intestines could be discoveredjunder it there was no reason to doubt that it was an omental hernia. A director passed very easily under Ponpart's ligamant, and the opening was enlarged to the necessary extent. The fumor was then readily passed back under the li current. Dr. Boyd and one of the assistants

were satisfied that the reduction was complete. Two attempts to reduce the hernia had been The lips of the wound were brought together by suture, and it was ordered that the patient should be left without medicine for six bours, At that time, as there had been no stool, the house-surgeon ordered a common enema, which laought away a certain quantity of freeal matter. In the night she took three grains of calomel, to be followed in the morning by a beeltea-injection: they brought away a little more faveal matter, but stereoraceous vomiting came on, and in the course of the day she sank .-The body was examined fourteen hours after death. There were very slight traces of peri-tonitis. The examination was then confined to The examination was then confined to the neighbourhood of the disea of The fumor had again protruded, and a portion of intestine; was involved in it; 5 or 6 inches of intestine on either side of the implicated part were removed, with the tumor, and the following state of things was revealed. The tumour was very condensed and very vasenlar, baving much the appearance of inflamed omentum, it was surrounded by a tolerably dense investing membrane. Into the centre of this fumour a knuckle of intestine passed to the depth of rather more than an inch and a quarter, and on every side the intestine was surrounded by fat to the depth of more than a quarter of an inch: the pressure mpon any part of the intestine did not appear to be great; there was, however, considerable thickening of the peritoneum at the proper neck of the sac, which was hard and unyielding. The intestine was adherent to the sac, as was the sac to the fatty mass. In this case, to which Mr. Phillips knew no parallel, it would seem that the fatty timour must have been scated in very immediate relation with the femoral ring, probably blocking it up, and that when the protrusion of intestine tack place, rather than give way, the tissue of tumour had admitted the intestine to pass into its centre. Of course the proper sac was not opened, and indeed could not have been got at without cutting down half an inch into the tumour.

CLOSURE OF THE EXELIPS .- Chaire of the evelids is not a mere passive condition, from relaxation of the levator, as taught by Bichat, but muscular agency is employed in its accounplishment. An interesting case is detailed of paralysis of the portio dura, occasioning lagophthalmos, in which, as in similar cases, by no means so very nocommon, the upper eyelid assumes that position in which the force of gravity, unaided by muscular elfort, would place it. With Sir C. Bell, Mr. G. Stokes thinks that, during sleep, the eyelfull is turned up, whilst the affected eye remains open, in fact the lower third of the eyeball is exposed in these eases to the dropping of the upper lid over the two upper thirds, and the white of the eye alone shows, from the more or less complete action of the inferior oblique. Mr. Stokes considers the noiscle as a true sphincter, for the reason that it presents all the anatomical and physiological characters peculiar to such anneles, viz., a mixed function, the voluntary power being employed during a state of wakefulness, the involuntary during sleep, regarding the orbicular and palpebral portions as but one muscle, possessed of a similar mixed func-

OPERATION FOR STRANGULATED HERNIA AT THE AGE of 107 !- The patient, who shewed the certificate of his birth, and is well known as a neusician, played on the violin with his late Majorty, George the Fourth. His name is Rochard, a Frenchman, and his faculties were quite entire. He came to St. George's Hospital with strangulated ingninal hernia, which had been fixed for some time, as no motion had passed for three or four days,—

as no motion had passed for three or four days,—

article warranted.

made before his admission. Mr. Hawkins found that, although there had been no sickness, it was necessary to proceed at once to the operation. The sac was very thick, and on opening it a mass of apparently transparent jelly protruded, which was a considerable quantity of recent lymph, distended with the serum, which filled the sac: contents were a few inches of inflamed small intertine gland together and to the sac by lymph, which Mr. Hawkins was obliged, after dividing the stricture, to tear away from the bowel in order to reduce it. The case went on very well afterwards, and requires no particular notice, except that the pritient is now well enough to take his usual walks.

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THE MEDICAL TIMES.

A Journal of English and Foreign Medicine and Medical Allairs

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LECTURES ON CHEMISTRY.

By JOHN SCOTTERN, M.D., Lecturer on Chemistry, at the Aldresgate School of Medicine.

AT length we arrive, gentlemen, at a very different part of our chemical course to that on which we have hitherto been engaged. Slightly, and imperfectly, we have sketched the properties of imponderable bodies—those mystic agents which reach our grosser senses, and scarce seem to claim alliance with the mortal world. We are about to commence the description of agents altogether different in their natures,-which are recognised immediately rather than by their remote effects; and which, moreover, are amonable to the grand force of gravitation -- a circumstance which confers on them their usual appellation of ponderable bodies. If a person could be sent upon the face of this globe, with comprehension enlarged and judgment matured-if he could be separated from his fellow men, and obliged to form an opinion of things around -probably his first supposition in regard to the world's composition would be, that the Creator had employed in making it so many different materials, as there were things of different appearances upon its surface or within its depths. A slight acquaintance, however, with the neverceasing mutations around, would soon cause him to alter his opinions-perhaps to embrace ideas diametrically opposite to those formerly esponsed. He would notice the silent disintegration of mountains, and the formation of soils: - he would observe parched and shrivelled seeds under the influence of light and heat, and showers, rise in all the freshness of vegetable life from the beds which first received them. He would see tiny animals crop those rising shoots, and grow, from their sustemance alone, into beings of sometimes gigantic size. He would see such animals, in their turn, devoured by other species - to be converted into structures which are as unlike in regard to structure and endowments from themselves as the tiger is unlike the lamb. Lastly, he would see them all die at the appointed time; their bodies, no longer under the influence of life, dissolve and decay; tens of thousands of metamorphoses result, which he had never before in his wildest moods dared to imagine, -and, lastly, of all the elaborate forms which an observer is supposed to have contemplated, there would remain tangibly before him, only a little dust !

Such remarks would convince him as soon as made, that his previous opinions were wrong, that however great the difference which his judgment had formerly imposed between the ideas of a mountain of soil, of vegetables, and of animals, there must be, nevertheless, something in common between the elements of which they were composed. He would now probably fall into the opposite extreme, and arriving at conclusious with a rapidity unsanctioned by inductive philosophy, would perhaps imagine that all the universe, animate and in-

animate, was composed of one element, or at most three or four, modified by some supernatural power, into organic and inorganic forms. may imagine to be the train of reasoning which led to the idea of some ancient philosophers, that the universe consisted of four elements, merely five, carth, air, and water. I should mention, however, that although this is termed the theory of the ancients, it was adopted by only a sect of them, Epicurus and his followers. Now I scarcely need inform you, that instead of four elements, there are lifty-four or lifty-five, of which everything, organic and inorganie, on this world or within it, is composed. Nay, we have reason to believe the whole material universe, suns, planets, comets, moons, and all, to be composed of some, or all, of our own tifty-four or fifty-five elements.

It is the province of chemistry to investigate the nature of those simple bodies, so that they may be individualized or distinguished from each other; then to muravel their various combinations, first of all in the organic kingdom, then in the more complex form of animal and vegetable life, where the hitherto well-sustained and evident relation of cause to effect is lost in the mazes of physiology and metaphysics. These latter considerations, however, we may defer until another period, our first object being to examine the simple hodies individually, and for this purpose we will pause an instant, ere we follow any particular mode of classification. As a prelude, I direct your attention to the list of simple bodies at present known.

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Zirconium					22	Zr	

With regard to this table of simple bodies I have to remark that the atomic numbers are divested of all fractional parts, and that the symbolical abbreviations are those in use by Berzelius, and followed by almost every chemist of the present day. We shall return to their consideration hereafter.

And now, how are we to group those simple

bodies, so as to facilitate their description? Why

this is really a somewhat difficult question to

decide: many plans have been recommended, but all are more or less open to objections. We may at least divide them into metallic and non-metallic bodies; think you, there can surely be no discrepancy of opinion here? When, however, I tell you that the substance carbon, or charcoal, is considered a metal by Döbereiner, Selenium by Berzelins,-and to crown these apparent inconsistencies, when I inform you that the gaseous body hydrogen, the lightest ponderable substance in nature, is regarded as a metal by Mons. Duma , it will be admitted that even this primary division of simple bodies is not so free from objections as might be imagined. Granting, that for all practical purposes the difference between metallic and non-metallic bodies is sufficiently marked, still, in subdividing the list of metallic, as well as nonmetallic bodies, great difficulties arise. We may arrange their under the heads of electro-positives and electro-negatives (amous and cathious,) into condustibles and supporters of combustion, or into acidifying or acidifiable; but still the propriety of either of these divisions may justly be questioned. Berzelius follows another mode of classification. He places oxygen by itself as a supporter of com-

bustion, and into inflammable substances, in which

he includes all other elements. The non-metallic

bodies he divides into three classes, viz.: 1. per-

oxygen, hydrogen, nitrogen; 2. metalloid:--sul-

phur, phosphorus, carbon, boron, silicon; 3. sali-

fying substances-halogenia - chlorine, fluorine, iodine, bromine. The complexity of this arrange-

ment best demonstrates how difficult the distin-

guished chemist must have found the task on which

we are now occupied. In the absence of any arrangement strictly correct, I shall follow one

without any philosophic pretentions whatever, more

than this, that it will bring conveniently before your notice, certain simple bodies, and afterwards inorganic groups of them. The arrangement alluded to is followed by Mr. Brande, and happens

manently elastic, or gaseous bodies-gazolyla-

to be more convenient than any other with which I am acquainted. I here present it to your notice.

Non metallic simple bedies.

Non metallic simple bedies. Oxygen Chlorine and its combinations with oxygen

Iodine and its combinations with the preceding ditto Bromine and its ditto ditto Fluorine and its ditto ditto Hydrogen and its ditto ditto Nitrogen and its ditto ditto Sulphur and its ditto ditto Selenium and its ditto ditto Phosphorus and its ditto ditto Carbon and its ditto ditto Boron and its ditto

With regard to the metals, they will be arranged under their own proper head.

We can scarcely with propriety begin the chemical description of simple hodies, until we have examined the principles of that nomenclature now so universal in chemistry. I am no great advocate

for burdening a mind with definitions which may not be required for days, or months. I would far rather develop a general scheme, and acquaint you with principles which, when correctly appreciated, should render the mi-take of chemical terms an impossibility. Do not imagine, therefore, that I shall give you a dry dissertation on the beauties of chemical nomenclature; you will have nothing of the kind. It is merely my intention to call your attention to the subject, to point out its conveniences, to demonstrate the ease of mastering it, and to allude to the uccessities which first caused its introduction.

In the early days of chemistry, when new bodies, simple and compound, were accumulating on the world, and when experimenters were actuated by no higher motives than personal vanity, they followed the very inconvenient and reprehensible plan of calling substances, either by a name like their own, or else of indicating them in reference to some imaginary property. Thus we have the term sat Glauberi, handed down to us as indicative of sulplinte of soda, merely because Glauber is said to have discovered it, and the liquid now termed uitric acid was called upon facts, because of its solvent property. These I offer merely as instances of a system formerly universal. Now to place the absurdity of such a nomenclature in its strongest light, I may say with considence, that had it been applied to the bodies and combinations of modern chemistry, a good memory and a long life would be unceasingly occupied in learning only a very small portion of the names. Towards the conclusion of the 18th century, this inconvenience was severely fidt, and just before the great French Revolution, when all, even science was ripe for change, certain distinguished chemists, namely, Lavoisier, Guyton-Morveau, Fourerey, and Chaptal, introduced a radical reform into the nomenclature of chemistry; one that exists with few alterations, save those of addition at the present day. All the simple bodies, so far as it was found possible, were designated by names indicative to a vertain extent of their nature; and compounds received names which immediately bespoke the elements of which they were formed. As an example of the principles followed by those renowned chemists, let us just examine the names of our metallic simple bodies. To begin, then, with oxygen; there was a gas known, which, according to the ideas of Lavoisier and his colleagues, was the principle of acidity, and as such, necessarily entered into the composition of every acid, it would indeed, be proved to exist in most, and it was inferred to be present in the other. In consequence of this property, real or assumed, the gas in question was called oxygen, a word compounded of orns and gennas, and meaning the generator of acids. This term was intended to be universal, and it might with propriety have been so, but the Germans disdaining to borrow from the Greek language, have called it sauer-staffe, a word so nearly English, that the literal translation sour stuff, is scarcely necessary. The second body in our list, chlerine derives its name from chlores, on account of its yellowish green colour. To dine is so called from i(des, violet) coloured. Hydrogen means the water former, and is termed by the Germans wasser-stoffe, which, literally translated, is water stuff. Nitrogen is so called because it is found in the substance uitre, or subpetre; I need not take up any other substance for the purpose of extending my illustrations. This much, then, in reference to the nomenclature of simple bodies, but we have also to frame name, for some tens of thousands of compounds.

All combinations of ovygen, chlorine, bromine, cine, and fluorine, with the inflammables and the metals which are not acid, are called oxides, chlorides, iodides, bromides, and fluorides; the combinations of inflammable bodies with such other, or with the metals, are distinguished by the termination reet as sulphuret, phosphuret, &c., and in some cases, the combinations of metals with creft other are similarly designated—thus we speak of Greeniurets, tellerets, &c.

We indicate different proportions of oxygen in exides by Greek and Latin numeral prefixed; thus indicated by the term per-oride; when the proportions of oxygen are as one to one and-a-half, the result is termed a sesqui-veide. The names of the acid compounds of oxygen are derived from their bases, and where there are only two compounds the terminations one and ic indicate respectively the lesser and greater amount of oxidation. When there are more than two compounds of the same base more complicated terms are required. Thus there were formerly known only two acid compounds of oxygen and sulphur; these were indicated by the terms sulphurous and sulphuric acids respectively. Subsequently, however, there have been discovered two other compounds, one containing less oxygen than sulphurous acid, and which in consequence has been called hypo-sulphurous acid, the other more oxygen than sulphurous but less than sulphuric, hence it has been termed hyposulphuric acid. Occasionally other terms are used. but a general knowledge of Greek and Latin will render their mention numeee sary here.

The saline combinations of the acids ending in ms, are distinguished by the termination ite, and those ending in ic by the termination ate, thus salphurous acid by uniting with a base forms a salphile, and sulphire acid a sulphate. Where the acid and base units in more than one proportion .the terms super and sub afford a bose means of disfinction, more correctly expressed however by the prefixes bi and di, the former indicating two eq. of acid, -the latter two eq. of base. Furthermore, an acid occasionally unites with more than one oxide of the same metal, when the particular name of the oxide must be mided as a profix; thus we have a protosulphate, and persulphate of iron. So much, then, with regard to the principles of chemical nomenclature, and before 1 conclude, b.t me draw your attention to a subject very nearly allied,-1 mean the recent introduction of symbols. Those of you who know the condensed power of expression afforded by algebraical notation, will not fail to recognise the advantages afforded by an introduction of the same system, or one very nearly resembling it into chemistry. Those of you who are not acquainted with algebra, will nevertheless experience the value of chemical symbols as we proceed. It is obvious that by fixing on certain letters as indicative of certain substances, we acquire an increased power of expressing them or their compounds. Thus O is much sooner written or spoken than occepen, and O-H=110 much comer than the phrase, Hydrogen combined with orgaen, constitutes water. But expressions may be still further short ned by introducing arbitrary igns for certain very common elements; thus oxygen may be indicated by a dot, thus . phur by a comma, thus .. The system of chemical symbol; is still further extended, but at this period I need not further allude to it. As we find with every new introduction, however useful,--there are not wanting those ready to carp at it, and make it appear ridiculous. It is argued that to many persons, symbolical chemistry is a dead language; to this the answer is short-let all make it a living one; again, it is said that the initials are not of the same power in every Imaginge; that P for instance is considered in Greek, and in Russian, which is partly derived from the Greek as R! Such objections are too paerile and ridiculous to merit much confideration. It is argued, too, that the small figure employed in the locality of an algebraical co-efficient, but a very different meaning, creates an unpleasant sensation to the mathematician; thus H in algebraical language, means the third power or cube of H; Int in chemical language, it signifies three atoms of hydrogen. For my ewn part, I cannot imagine any rery unpleasant sensation thus produced in the head of any one, and I never heard that the nerves of mathematicim, were more treaddingly alive than the nerve of cleanints or of may other people.

We learn from Stockholm, December 16th, that the celebrated chemist, Berzelius, had nearly fallen a victim to his scientific pursuits a few days previously; an alembic having we have pretorial deate ide, by binocide, tritocide, burst, he received in injury, which fortunately or teroxide, and the highest state of oxidation is whe not attended with crious consequences.

COURSE OF LECTURES ON THE DIAG-NOSIS, PATHOLOGY AND TREATMENT OF DISEASES OF THE NERVOUS SYS-TEM.

E) MARSHALL HALL, M.D., P.R.S., Fellow of the Revol College of Physician , London, &c., &c.

HICTURE III. Inducted December 7, 1832.)

(Cataladed from p. 114.)

THERE is an affection of the breathing and the respiration, which is proved to be the case, by the escape of bubbles from the air-passages, you find this state of things results from swallowing the smoke of tobacco, which produces the action of vomiting, which is neither more nor less than an act of respiration, when the larvax is closed, Here, then, the blood is in a morbid state-it has been poisoned-surcharged with carbonic acid gas —and in this morbid state you have an effect like epilepsy. This is important, as I have told you already that every physiological action, with regard to the spinal marrow is reflex, and I mentioned one case, to shew that the pathological action of the spinal marrow is almost always direct. -that is to say, it must have originated in the spinal centre. One fact more—and that is also a repetition.—I wish you invariably to bear in mind the extraordinary difference between the two diseases. I have already adduced. I believe that they illustrate this pathological state of the spinal marrow, namely, tetanus and hydrophobia; I think you will find that they are associated everywhere as examples of reflex phenomena. Now, the bones are not drawn asunder in the pathology of the one, while they are so in the other. In the pathology of tetanus you have a reflex action, You can produce this by a simple experiment. All you have to do is this: take an animal.-a cold-blooded animal for this purpose is the best, and for this purpose the tortoise is the best. In order to produce the experiment, the head is taken off; and if you irritate the extremities for a certain length of time, you will produce a state of tetanus in the whole animal frame. It is important to see that this takes place. In hydrophobia, what we do find? We find a state of things, compared with tetanus, produced by strichnine. I speak of tetanus where the action is of a direct kind, certainly arising from the impression of a morbid state of blood on the spinal marrow, which being cent to the various muscles, the whole is thrown into a tetanic action. How Take a frog, and apply a do we prove this? ligature round the head, so as to bind the sciatic merve. You will see, on pinching the toe of that frog that it is perfectly alive to sensation, and that there is, therefore, a reflex action; therefore, the sciatic nerve was so tixed by the ligature as to prevent any action through the medium of that nerve. If you put it for a moment under the microscope, you will see there is no circulation. If you sprinkle the surface with strichnine you will wait a long while before you see any effect, but if you tie the ligature in twenty minutes, the animal is then perfectly tetanic. What do we conclude from this? That the blood has been poisoned, and that the nervous system has been poisoned. I have distinguished two cases of tetanus, the one is concentric and the other eccentric. Here, then, we have tetanus crising from reflex action, and tetames arising in hydrophobia from the poisoned state of the blood. For in hydrophobia there is poison, and in teranus there is no poison; that is, tetamis arising from mere lesion. It is a physical injury, as I tell you, that all that excites realex action is physical. Nothing absorbed does; cold does it, heat does it, and it, and lesions do it; everything that is physical will do it, but nothing that can be absorbed does it. For all that can be observed in carried to the blood, and is then carried to the spinal marrow, and issues in direct action. The actions so produced are very similar. Here, then, you have a most decided proof that poisons or morbid agents act not in one only, but in two ways; in one way, through the reflex functions, and in the other, through the direct action of the spinal marrow.

I think some time has been occupied by my

having entered more deeply than I intended to do into the preliminary questions. The question I intended to bring before you at this lecture is the subject of the diseases of the nervous system in children. You are perfectly aware I am persuaded that no subject can be more important to you on entering practice than the diseases of the nervous system in children, and you will find the subject one of deep interest to you. Affections of the cerebral system in children-what are they? Genthemen, a child, in the first place, may receive a blow on the head, and inflammation in the cranium will ensue as a necessary consequence. In the second place, the child may not have undergone any such accident, and yet the symptoms of inflammation and affection of the brain may very early come on. The former case is one caused by a collision; this case generally speaking, we are able to trace to what is generally called water on the brain. Here the phenomena are a state of things clearly referable to inflammation; in the latter ease this is doubtful. Here you have the two chief maladies, and I have to introduce to you another-a third-which is one of the most intense interest. You are aware, that after scarlating has lasted about sixteen days, after it ceases, or is so mild as to lead to a helief that your services are no longer needed, and the little patient begins to play and to rnn about as if quite well, it is in such cases after about sixteen days that the child sometimes becomes affected with a bloated countenance, and with that a state of things resembling a state of apoplexy in adults, with the exception that the child's face is not bloated as in some species of dropsy. It continues exceedingly pale, and you have phenomena of a peculiar kind, besides that of coma : you have, in the third place, that which is called the water stroke. It varies from fourteen to vixteen days days after scarlating, occurring after the mildest cases: and this is important for you to know, because it is precisely in this case I am alluding to that you have,

There is another case which I do not think is a very common case. I have recently been attending with Dr. Pront and Mr. Stone, one of the most interesting cases you can possibly imagine. The little child had just recovered from a state of purpurea all over the body. But what remained? This remained, the prine was 1-1030 degrees in specific gravity, and with the afbuninous deposit there were sometimes small particles of blood, and some other matters. The child remained in an invalid state, and every day, apprehen ion was felt that the child was affected with some disease of the nervous system-some affection of the head-some affection probably of the spinal marrow. Now, then, we may have affections of the head like this patient had, like hydrocephalus from a state of amenorrhoea, and many other hydrocephaloid diseases, accompanied with an attack of bronchitis, or something of that sort. The child may be in a state of great exhaustion, which is a state perfectly similar to hydrocephalus. If you are not aware of that, and if you do not trace it through its past history, it is totally im-possible to distinguish between the two. In a case of hydrocephalus, you may be certain of recovery. If you are certain that it is hydrocephaloid disease, you may be certain that under proper treatment it will recover. How is the prognosis formed? by this distinction. There is one case more. Sometimes you have an overloaded state of the intestines; in such a state the child may recover under the influence of pargative medicines; I have laid before you these cases—inflammation. tuberele, water-stroke from scarlating, and a state occuring after purpurea with albuminous urine, and then bydrocephalus and the other case, of convulsions, arising from an overloaded state of the intestine. I have just time to go over the symptoms of hydrocephalus before I contains the state of the the clade my lecture. I shall be very brief, but I want to show you, once for all, the importance of a knowledge of the physiology of the nervous system whenever you have to observe and treat of diseases of the nervous system. Suppose you are called to a case in which there is a little child being affected with tuberenlous affection of the

had a fall, whether any thing has happened to the child to produce anything like inflammation, and you then try to trace the affection to one of the ordinary causes. You examine whether the child is one of a family of children, of whom some have died of hydrocephalus, and I really know no more important fact than this. The next question is whether there has been any predisposition to hydrocephalus in general. I mention one fact of great importance.

I have no doubt whatever that there is a predisposition in one family to hydrocephalus in infancy and in another to tuberculous disease of the abdomen at a later period, in a third to tubercles in the lungs, pulmonary symptoms of other kinds occurring at a still later period of life. You first inquire whether there is any disposition to hydrorephalus, and I take this to be an important element in practice; if the disease is not hydrocephalitie, you inquire whether there is tuberculons affection of the intestines, and you inquire whether the child has undergone scarlating, the water-stroke, or whether there is any morbid state of the nrine. I have already told you, that if the urine is not secreted as it ought to be the blood is sensoned, and the poison is, therefore, carried to the nervous system. Look at the child's face, and you will see it is extremely pallid. You inquireand hope-whether it has had any hydrocephaloid affection, and whether there is any cause of exhaustion. Now I want to tell you what you naturally observe-the first state of the disease is a state of over-excitement, and the second state is one of undue excitement. You observe, that the little patient's countenance exhibits a state of agony which the tougue cannot tell. If there is a pain and the patient cannot express it, you find it expressed in the state of the countenance, it is a state of over-excitement. What is the next thing you are to observe? Does the patient When it falls asleep, the sleep is disturbed, the patient is excited, and starts up in its dreams, it cannot go to sleep and seems in a state of great excitement. Look to the eye-the pupil is contracted, and what do you observe? The patient cannot bear the light—it cannot bear noises, even the skin sometimes is unduly sensitive; that is one of the things you may observe. You find all the senses unduly excited; there is an ex-pression of pain; the patient does not enjoy sleep, but starts up with something similar delirium, and cannot be appeased; the eyeball is contracted, and the eventself is contracted, there is an undue sensitiveness to light, the child cannot bear the light, there is an undue sensitiveness of the organ of hearing, and an undue sensitiveness of the organ of touch, or the skin. These are the very first symptoms. There is one more symptom, and that is an undue excitement of the true spinal system. No symptom in my opinion is so important to treasure up in your minds as the circumstance of vomiting in children. If you cannot account for it by finding that some improper food has been taken into the stomach, then you always suspect some affection of the brain. If the child has had a fall, the question is, is the brain injured? Has it so suffered from the concussion as to be materially injured? If the child has had such a fall then inflammation will follow, and the question is to be determined by asking whether the child has met with an accident of that nature? But you can never leave it perfectly safe. Vomiting and siekness are the premonitory symptoms of hydrocephalus, and this is a point of the utmost importance. A very particular friend of mine consulted me about a little patient who had these symptoms of sickness. The child was sick at everything; the bowels were in a perfect state, but the child continued sick. There were no other symptoms. The question asked me was, may the child be taken out of town? I consented, but I was persuaded the child would in a short time manifest symptoms of hydrocephalus. In a fortnight the child shewed symptoms of that disease. Now a medical man ought never allow a patient to go from under his own eye.

Now, gentlemen, there is another important thing, that is the state of the pulse. Here i, our

relation between the number of the beats of the pulse, and the number of respirations. It is so beautiful that it is impossible for me to mention it in too energetic terms. Look at the child asleep. You find its respiration less frequent than usual, and so is its pulse. Look at the same in a child awake, and you find its pulse quicker in precisely the same proportion to the respiration. Let the patient fall into a sleep, and you find searcely any pulse and scarcely any respiration. You invariably find this to be the case, the pulsations and the respirations are not in the same number, but in the same proportion. Count the number of respirations and the number of the pulse, and you will find the physiological state always changes the moment you come to the pathological, If the respiration physiologically is less frequent, so is the pulse. The same proportion is always found when it is physiological, and when you come to the pathological you find this relation is disturbed. and this exceedingly assists you in your diagnosis. Now, when we come to this little child, if the disease is hydrocephalus, the respiration is scarcely affected at all, and the pulsation is quickened. Here you see the relation is altered; the respiration is searcely affected, and the pulsations are quickened a great deal. Now, for fear of not giving to these observations the point I wish to give them. I will just briefly go to the opposite state. When the child passes into a state of hydrocephalus, you find that all I said before becomes now contradictory. What have you? Pain expressed in the countenance, you have coma, and then you have undue sensitiveness. Now you have come to produce deep sleep. Every thing seems altered. Hitherto there was over-sensitiveness of the eye to the light; now the eye is scarcely susceptible of light. The pupil was contracted, now it is dilated. The cyclids closed on the approach of light, now they remain gaping. child was unduly sensitive to noises, now it is deaf, and is not able to detect anything like noise. There was an undue sensitiveness of the skin, there is now a numbness all over the skin. There are some other points so interesting, that I fear time will not allow me to enter into them, I will do it briefly. I have told you that in the first case the eyelid contracted, and dilated in the second. In the second case, when the eyelids are dilated and open, if you touch the cyclash with the point of your tinger or the feather of a pen, it immediafely closes; in the latter case, if you touch the cyclid it will not close. There is a third case, The pupil is dilated, and in this case it remains dilated, and as the coma becomes more intense, the pupil dilates more and more. You now find that the pulse and respiration are, as I said before, altogether contradictory. The pulse was quickened before, the respiration remaining the same. Now look at the respiration and see its characteristic. The child breathes two or three times in the natural way, and then there is a cessation of respiration. There is quite a pause in the respiration, and this it is which gives the thermometer, or measure of the coma; as the child falls more and more deeply into coma, respiration becomes more and more irregular. After a pause, the organs invariably betoken a state of things like that of infusion into the lungs from without of carbonic acid gas, and perhaps in a deep state of coma, there is an absence of all sensation of pain. The pulse is exceedingly varied, and it ceases with the breathing; it becomes exceedingly slow, and more and more characteristic of what was noticed by Dr. Abereromby, namely, that the pulse was unequal and intermittant. There is a respiration, then a pause; then it will begin again; the pause is repeated, and then the respiration again takes place; if you count the pulse, you will find it is invariably intermittant.

ROYAL COLLEGE OF SURGEONS IN LONDON.

List of gentlemen admitted members on Friday, December 30th, 1842:—
J. L. Mackintosh, G. Green, T. Evans, T.

S. Blackwell, H. Hutsen, W. A. Backham, C. brain. In the first place, you naturally inquire of the most interesting points I can being before I cans, W. S. Brilton, H. Cooper, R. Jones, into the probable courses, whether the child has you. You find, uniformly, that there is a beautiful J. Mullius, N. Buckley.

NAPOLEON'S LAST HARRESS AND DEATH.

(WE consider that the following contains some facts, both medical as well as historical, not before known. The author, a foreigner in the British medical service, has not profixed his name to the title of the book, from which we make the following extract; but the fur of the work being pullished by a respectable firm of Leipzig, and its insertion in several German journals, fully prove

the credit due to the author.]

In February, 1821, it became known that Napoleon was daugerously ill, his hodily ailments being exacerbated by the state of his mind, which had been greatly burt by the news which reached Longwood from Europe of the sinful and disgraceful conduct of his wife, &c. He complained of constant pains in the epigastrium, weakness and entire absence of appetite. Two or three emetics, given to him by Antonim rehi, placed him in the most distressing position. Shortly after, he refused altogether to take medicine, and those still offered to him, he threw out of the window. Signer Antonmarchi had been a pupil of the celebrated Maseagni at Florence, and consequently was an anatomist of great ability; but, in therapeutical science, he certainly was not much skilled. ture also to add, that the Emperor did not place the least confidence in him. General Month don told me himself, that when Messrs, Bonavista, Vigaeli, and Antonimurchi, arrived at Longwood; each of them had to undergo a strict examination. The two latter were Corsicans; and Cardinal Fesch, who had sent them, thought probably that they would much please the Emperor, which, however, was not the case. Bonavista, a South American bishop, and a very well-informed nem, was passable with the Emperor, as was also Abbe Vignati, although a man of very inferior capacity. But the doctor was a bad chean t; and Nap doon. who, hye-the-live, was no intept in this science, though very fond of it, as of all the exact science. harassed him by his questions, and dismis of him with expression, anything but complimentary. Antonimarchi considered him-di lo i, but waconsoled by the persons about the Emperor, who said, that his anger would not list long. Montho-Lan advised him to ask for another audience, to confe s himself a mere pupil in chemistry, to ascribe the fault to wrong training, and to request the loan of some chemical books from the Emperor's library. The doctor did to but I do not know that he ever succeeded in coining the good opinion of the Emperor; in far, he was the only one of the suite at St. Hel arr who we not mentioned in the Te tament - an omission which the family was obliged to repair by the grant of a pension.

The ceremonial which the great man imposed upon every one at Longwood was most haras ing: and Antonomirchi afterwards told me, on our passage to Europe that he was often near fainting, having to reach two or three hours standing in the lick room of the Emperor. Napoleon seemed to know his disease very accurately, and we are induced to believe in the herelitary alequeter of inflammation of the scotach, since we know, that besides him, his father, the princess Rurohese, and queen Caroline or Naples died of the same diserse. His paint convinced han of the truth of his diagnosis, and Dr. Arnott (the Fuelich Phy-tcian, who was, at a later period, called to his aid; afterward, told me, that the finger a often placed his hand on his stomach, exclaiming, "Ah! men pylore, -mon pylore!" The 4th of May we exceedingly stormy, and on such over ion the wind visits the island always from the sune direction. At two o'clock in the morning, one of our officers, only half dressed, and without a left, rode in full peck to my door, and edled me to so inmediately to Plantation (barse, where the your est child of the governor had been danger on ly ill. To damestown other surgeon, had been called in haste, and telegraphs called for medical aid on all The 5th of Max was equally cloudy and stormy; a battle of the elements seemed to accompany the last struggles of the hero-the Emperor great drama wa o er.

The post mortem examination was made in the presence of Bertrand and Montholon, some field officers of the governor-in fine, of all the medical officers of the governor, even some from the ships. Antommarchi was also present.-- I had received orders from the chief medical officer (Dr. Short) to write the minutes of the antopsy, and to compose the bulletin, which was afterwards published; still, I was not permitted to sign my name to it, as I then was only an assistant surgeon, and the governor had ordered that it should be signed by no one below the rank of a regimental surgeon. Sir Walter Scott's account of the post morten examination is not quite correct, as several persons, who were present, are not mentioned.

Death is often awonderful beautifier of the human countenance. On Napoleon's features it had acted wonderfully and very advantageou ly; the general observation on sceing his corpse was, "How beauand all confessed to having never seen features more regular and more mild. The Italian cast of the profile was obvious in all its charms; an inconceivable screnity and purity of expression charmed every one, contracting, as it did, with the turbulent deeds of the great hero. And as his whole life exhibits so many anomalies and things unriddled, so even the inauquate remains displayed similar phenomena. Notwithstanding the awful a inidady, which generally emiciates the patient, the corpse of the Emperor was found very The whole frame scened to have resisted viril encroachments to the very last, like the mind which also had remained unconquered. On the stermin I found a layer of fat one and a balf inch thick; on the peritoneum it was two inches; the omentum, the kidneys, and heart, were covered with fit. The heart was remarkably small, and its muscular substance Lix, quite different from what is thought to be the case in courageous and great men.

The disease, of which Napoleon died, has been matter of much dispute even during his life, O'Mears had affirmed, that the live was the suffering organ, which Autommarchi had repeated after him; but the illustrious patient knew (as I said before) his state much more correctly, in stating the stourich to be the scat of his disea e-and now the examination confirmed the trath of his assertion. The tomach was found in a perfect state of disore mization; it was all over in a state of inflammatory appuration. The chi f seat of the disease by in a where Napoleon had so often stated it to be, in the pylorus. I could on this place enter with my tinger into the sick of an ulcer, which had corroled the orifice of the stomach, but which hallbeen again covered by a slight adhesion of the liver. But the latter was free from any disease, in fact, very organ, except the stoucieli, was perfectly sound. There were some other peculiarities observed the body. On one arm, he seems to have used for on sometime a seton; on one of the legs I found a little scar as from a wound, which might have been however emissed by a shell above a thorax was not very parious, and the round arms and small hand, and feet, gave to the body a feminine and delicate appearance. Partex occitales e conitation ignorable and proportion to the loady, with a fine towering broad breev. Besides these, there were no plus not cited protuberances of any kind for inin pecial development of any sole dient ne any quality of mind.

The causes of death were therefore obvious and pulpable in the discred state of the stomach; it cemed, ladged, incredible, how Napoleon could leave lived so long with an oreim, of which there was not one in hound. Autonomirchi was just about signing the bulletin after the Lochch physiclear, when B rtram and Montholon eithed him aside, and after they had gods a with him, he decliu datas ne lá centure. The reason is casily to be gues ell, for hy his a seat to the protocol, he would have contradicted Dr. O'Menra nosis of an hepatic di case. With the desire of screening O'Mora, and to cost all the odium on then there is neither this, nor any endemic disease infrarete. Thus the zoonites of the associated in this is land. And arest the coldiers there occurred in wivedly change but little, and the less so in prolap in his last agonies at Longwood. In fine, the theore is neigher this, nor any endemic disease

at times (although very rarely), an inflammation of the liver, if they had been too much exposed to the burning sun of Jamestown, but the cases did not amount to the twentieth part of what we had in India. If the men were exposed to wet weather, or in the night air, here, as every where else, diarrhea made its appearance; and I moreover state, that not one man died during a whole year in a regiment of 500 soldiers, and that that proportion was a constant one during 5 years, in which period not one of 40 officers died. climate of St. Helena, cannot therefore be called unhealthy.

ON THE LAWS OF THE DEVELOPMENT OF ORGANS; OR, TRANSCENDENTAL ANATOMY APPLIED TO PHYSIOLOGY.

Ev E. R. A. "FIRRES, Member of the Australia of the Acolomy of Widoms, Paris, or Cellic Massamod Material Hesting, Paris,

SUMMARY. - Connection between organizery and the Sholowhal idea of the animal series. The invertebrata considered in reference to the arrangement of their tissues, are permanent embryos of the vertebruta. - Lacrie beated mondaysts, dent shipsts, Se. Relations between the embryos of the vertebrata and the identification considered in reference to the manner in which the organs become whiled one to another in the embryos of the vertebrata, and the tis nes in the invertebrata, according to the variubility of forms cridenced in the different species.

Having in my last remarks established the first relation of organogeny with zoogeny, I now pass to a second. If, in fact, zoonites are capable of association like organites, we may conceive that the animals resulting from this association would vary in the same way, as the organs themselves become diversified, in consequence of the mode of union of their constituent elements. The form of animals like that of organs, would then be but a secondary point, and such in fact it is. Thus a chain of hiphara will be very different from an isolated being, although this claim represents but one animal formed by their union, and this union commences in the ovum (Dugés); so also with the destanting duplicatum, for the formation of which from two to six individuals become united (M. Siebold). Again, on viewing beneath the microscope the logenula enchlora, we might imagine that we were examining the embryonic kidney of man, or the permanent kidney of the ox, or the still more divided one of the cetwera. In all these eases, we find a body composed of similar parts which are associated together in a manner resembling the molecules of a mineral in forming a crystal. Hence it follows that in zoogeny, as in organogeny, the differences of form are derived from the mode of association of the elements. Thus we have radiated animals, as the medasa, the asteria, the comatula, &c., the elements of which are grouped around a central point; clongated ones, as the earth worm, the tocal, the associda, in which the elementary lines are added end to end. From these two elementery forms combined, arise the various forms of those which are neither elongated nor radiated, such as the hippopola, the this player, &c., as also those intestinal worms which zoologists sometimes refer to a binary, and sometimes to a circular arrangement. We have thus in some measure the repetition of the long bones, the short bones and the flat bones; we have the reproduction of the long muscles, the radiated muscle, and of those, more namerous still, which are neither radiated nor clongated. Zoogeny reproduces organic morplageny.

The analogy is carried till further. In organogeny, association is a species of combination in which each combined element dive to itself of a part of its characters. It is the same in zoogeny, by a sociation the elementary unimeds lose some of their distinctive characters, and this loss, as in oremogeny, is always proportional, on the one hand to the digree of incorporation, and on the other to the extent of surface by which the associated 200 nites are held in contact. It therefore follows that the government, a rewell as a great it were, was inites are held in contact. It therefore follow that brought tortic which, in the people of Ga tro hepasteria, held hilled the period. New Factor formally, their individuality as their association shall be been association.

portion as their pediele of association separate them further one from another; again, the zoonites of radiated annuals combining only by a small surface, preserve their characters almost entire; hence the similitude of the radii, of the asteria, and of the rotellina. In zoonites associated end to end, the contiguous surface being more extendedt, the change is more remarkable, and even more so still where their association is more intimate. Such is the case with the anuclula, and some species of tania. By thus following step by step the degrees of incorporation among zoonites, we arrive at the composition of the crustacca, a subject which has been so ably treated by Duges; and, (a circumstance especially descrying the attention of zootomists,) we are enabled to perceive that the e-sence of the metamorphosis of insects resides in the meorporation of the segments composing the carra, and in the modifications which they thereby experience. It follows, therefore, from our preceiling observations, that there are, among the lower animals, solitary beings, as we find in organogony isolated glands; and in the same way as with this organite considered as a radical, nature forms by association congregate glands as those of the eye-lids; agminated or contiguous as those of the intestmes, or like the kidneys of fishes and the erustacea; conglomerate like the panereas, the kidney in adult man and the liver; so also with a zoonite, combined in various degrees, nature will produce, congregate, agminated, and conglomerate animals. Here again zoogeny may be considered in some measure as the counterpart of organogeny, a thousand different forms springing from one common basis.

If, even by the assent of zooromists, who, apparently, have been the most opposed to these views, this analogy is founded, we see that through all the dissimilitudes of form, it will be possible for the physiologist to distinguish the fundamental analogy, and so systematically to combine this analogy, as to establish through its means a continued series of organisms and of animals, from the most simple up to the mammifera and man. This grand view of which Aristotle was the originator, is designated in zoology by the name of animal series. The supposition of an animal series in zoology is an abstract idea based on organogeny; for, viewed as a whole, the animal kingdom presents to us a determinate number of organic elements and of organs distributed by nature, according to constant laws, to all the beings endowed with animal life. But this repartition does not take place in such a manner that the number of these organs and organic elements is equal in all. The most general law presiding over this distribution is, that of the graduation and succession, whether of the organic elements, or of the organs themselves which concur in the formation of the different animals. The animal kingdom thus offers us a continued and permanent evolution and metamorphosis of the materials of animality. It is a repetition on a large scale of what passes in the evolutions and metamorphosis of organogeny in man, The method of natural classification, reproduces this graduation and inequality of division of the materials of animality; it describes, under the names of classes, families and genera, the most prominent evolutions, selecting for each division a ruling organism, the progress and development of which it rigorously traces through the series. A natural classification is thus merely a table of organogeny, indicating step by step the progress of development. Now, this gradual advance of organogeny in the animal kingdom is only a copy of the successive development of organogeny in man; the one is a repetition of the other. Thus in the animal series as in human embryogeny, the being commences by the most simple vesicular state then it becomes gradually developed by the addition of tissues, and, subsequently, of organs and organisms. The greater the development of tissues and of organs, the higher will be the rank of the animal. Animality and man progress by the same laws. By considering the advance of organogeny under this point of view, we shall be enabled to divide it into two periods; the one Leing relative to the development of the elementary tissues of the organisms, the other to the development of the organs themselves. From the

first period issue the vertebrated animals; from the second, the vertebrata. Now, as in human orgauogeny the elements of the organisms precede the organs, as the primitive arrangement of the tissues is in some sort but their embryonic state. it follows that in the animal hingdom the invertebrata are permanent embryos, in relation to the vertebrata. Such being the case, we may conceive that the development of the invertebrata, as well as that of the embryo of the vertebrata, should take place in the first instance by the addition of tissues; and such is really the fact. Thus, the most simple of the invertebrata, those by which animality commences, are principally formed of the most simple of all tissues, the cellular tissues mo diffed in various ways. This is the common basis of the monades, the volvoces, accidency sts, the ascidia, of a part of the rehinecocci, and of the pelypi. The life of these animals, distributed equally throughout all their parts is limited to the properties of this tissue, the characters of which are, on the one part, uniformity of function confined to exhalation and absorption, and on the other part a constancy of reproduction when divided. From this elementary composition result the singular properties with which these animals are endowed, as exhibited by those carious experiments where, on turning inside out such of these animals as possess an intestinal cavity, the intestine placed in the situation of the skin, fulfils the entaneous functions, and the skin, in its turn, performs the nutritive functions of the intestine. The functions of exhalation and absorption are thus displaced at will under the land of the experimenter, who may also, at pleasure, reproduce and multiply indefinitely these animals by dividing and sub-dividing them. The animals at the bottom of the scale thus sport, as it were, with life and death, and they owe this faculty to the primitive tissue of which they are constituted.

If to this primitive tissue, be added the circumferential sanguiferous system, we advance a step in the animal scale, as in some of the rehinodermata; if the museular system be added, a still further advance is made, as in the rotifera; if these three systems be combined together, we arrive at the rank of the belianthoida. Lastly, the muscular system being clearly delineated in the organisation, we see appear the nervous system hitherto confounded in the various portions of the animal. From this new combination arise the annelida, the mellusea, and, perhaps, even the crusiques. These primitive tissues are then the fundamental bases of invertebrated animals; we have thus a complete system of histogeny presented by the comparative anatomy of their structure. The natural classificatomy of their structure. The natural classifica-tions being based upon the advance of animal organisation, zoology might, under the guiding genius of a Bichat, be so systematised, that the structure of the invertebrata should be represented by their classification. Thus we might have monologists or invertebrata with a single tissue, deutologsts with two tissues, tritologsts and tetralogsts with three and with four tissues. We should thus see zoology, escaping from its present narrow limits, perhaps exercise over comparative physiology the same influence which the hystology of Bieliat has exercised over the physiology of man; for, in the progressing and histogenic composition of the invertebrata, each tissue bearing with it its characteristic properties, the functions, would increase in the same proportion, so that the sum of life or of functions of an invertebrated animal. would be exactly represented, both by the number of tissues concurring in its composition, and by the degrees or stages of evolution through which these tissues may have passed. And in the same way, on considering at their commencement vertebrated animals, we shall see them transiently clothed with the modifications of structure offered by the invertebrata; we shall find their development to take place in the first instance by the addition of tissues, and afterwards by their evolution. Before impregnation, the animal will be represented by a vesicle and a cellular membrane enclosing an oleaginous fluid; this will he a true monologist. After impregnation, the hlustoderma, whence the constituent parts of the curbryo arise, presents two membranes, the one external or serous, the other internal, cellular, cr mucous; this would be a deatchyst. A little later a vascular membrane becomes interposed between the two first, and this would be a tritohyst. Lastly, it would become a tetrahyst when the nervous tissue, which commences the development of vertebrata, shall become clearly marked out from the original structures of the animal. If, from this common origin of organogeny and zoogeny, we trace comparatively the development of the embryos of the vertebrated and that of invertebrated animals, we shall see it take place in a somewhat different manner. In fact, an animal, as an embryo, is constantly progressing, either by some new evolution in one of its principal organs, or by the appearance of some fresh organ. Thus, in the primitive state of an embryo, as in that of the polypus or of the entozoa, the intestinal canal is found without a liver or salivary glands. The salivary glands, the liver, and the month, become developed subsequently in the embryos as they manifest themselves in the crustacea, in insects, and especially in the mollusca, as far as concerns the liver.

The embryo, as well as the zoophyte and the polypus, is at first devoid of all trace of isolated reproductive organs; the Wolffian and O'Kenite hodies, improperly named primitive kidneys, afterwards appear, and which are the transient reproductive organs of the vertebrata, bearing an exact resemblance to the reproductive organs of the annelida, the mollinea, and the crustacea. The permanent reproductive organs of the embryos of the vertebrata, so different in their ultimate stage, still offer in a transient manner the homogeneousness of sex which we observe in the bivalvular mollinea, and in a great number of cutozoa.

The respiratory organs are formed in the invertebrata, as in the embryos of the vertebrata, by the vascular layer of the blastoderma, and their difference results from the different relation of this layer with the two others. Thus, in the invertebrata, the vascular layer being intomately united with the external blastodermic membrane, its evolutions will remain combined with those of this latter membrane. Hence it follows that the respiratory organs will always form a constituent part of the skin; that they will become converted into fins, feet, antenna, vesieles, hair, &c., such as they are found in the annelida, the crustacea, and insects. And, on the contrary, in the embryos of the vertebrata, the vesicular layer of the blastoderma having more immediate relations with the internal than with the external layer, the temporary respiratory organs will have greater connections with the intestine than with the skin. Such are especially the omphalo-mesenteric vessels of the mammifera and of man, the umbilical or omphalo-mescuteric membrane of birds, and in a more advanced age of the embryo, the allautois, or ovo-urinary bladder of the mammifera, of birds and of reptiles. The mollusea, so remarkable among the invertebrata by the development of their intestinal apparatus, will serve as a connecting medium between these two branches; for the respiratory apices scattered over the external covering of the scyllea, the tritones, the glaucus, and the colis; the branchial appecs of the doris, concentrated around the anus; the respiratory villosities of the patella and the escabriona; and, lastly, the branchial cavity buried within the folds of most of the gasteropodu, are merely varied degrees of the omphalo-mescuteric vessels, of the branchial villosities of the chorion in the mammifera, and of the allantois, or ovo-urinary bladder. In fact, it is only in the cephal poda that true branchic appear for the first time in the mollusea, similar as well to the temporary branchia of certain reptiles as to the permanent branchia of fish,

We have already seen that the embryogeny of the heart in the vertebrata, reproduces with sufficient accuracy the permanent condition of this organ in the invertebrata, without its being necessary to admit in the latter class a deviation from the common type of development, or a new plan, according to the expression of Cavier, in reference to the two hearts of the lingula, and which Mr. Owen has discovered in most of the terchratula. It is then by a succession of evolutions that the organisms of nutrition become more complex and developed in the embryos of the vertebrata, as

well as in the class of invertebrated animals. Hence it is in these two corresponding states of animality that the terms of comparison must be sought, as well as the relations which bind together the invertebrated and the vertebrated animals, and even the different classes of the latter among themselves. Without this mode of connection, the animal series is inevitably interrupted, and confusion is introduced into the study of zoology, a circumstance which it is impossible to prevent in taking into consideration those animals only which have already reached the term of their development. It is sufficient to observe that the councetion and rescriblance of forms which serve as the basis of modern nomenclature are applicable only to groups, and not to the entire of the animal kingdom. The secondary divisions, the genera, the families, and even the orders are very naturally connected one with another; but not so with the classes, nor with the principal or reigning divisions, It is especially between the vertebrata and the invertebrata that the resemblance has appeared of most difficult demonstration, and it is there that all the efforts of classifiers have failed. But if, instead of arbitrarily dividing the field of nature, you include its entire extent within your views; it you embrace within your researches the immensity of facts furnished by organogeny, as well as those already established by comparative embryogeny. you will see these distances become lessened and the gaps become insensibly filled up. You will discover, by means of this method, that the inferior organisms of the invertebrata have their representatives in the organisms of the embryos of the vertebrata and of man. You will find in the fugitive and transient forms of embryogeny in man, and the vertebrata, the fixed and permament forms of the organisms of the invertebrata. Indeed, of these two orders of organisms, the one will be but transitory, and its forms will have merely a fleeting existence; the other will, on the contrary, be permanent, and its duration will be subordinate to that of the animal itself. The analogics then will be in the structure of the organisms. and the difference in the duration only,

We thus come to the conclusion; first, that the great zoological question of the series of beings, reduces itself to that of the continual series of the developments of organisms considered throughout the whole of animals; secondly, that the differential method exclusively employed in zoology up to the time of the Geoffroys, was, in its nature, incomplete, since it embraced only the half of the question; and, thirdly, that the explanation of animals can never be arrived at without the union of the method of analogies with that of their differences. When this truth, which is now beginning to be received shall be fully established: when it shall be generally acknowledged that the invertebrata are merely the permanent embryos of the vertebrata, we shall no longer see the most elaborate rescurches upon the infusoria and other invertebrata devoted towards raising these animals to a rank which nature has refused them; we shall no longer find the most celebrated zootomists affirming that the invertebrata are constructed upon a different plan to the vertebrata, and consequently that their rules of formation, and their mode of development can no longer be the same, We shall not see men of the greatest talent wasting their time in superfluous efforts attempting to give a spinal marrow and a brain to the infusoria. the annelida, the mollusea, insects and erustacea, which, in the order of developments, neither have nor can have such organs. In a word, we shall not see in the principles of the science that disunion which contrasts so strongly with the identity of the facts which organogeny unfolds in the development of the beings of all classes,

We find on the contrary, in the application of this new relation, the reason of various characteristic peculiarities of the invertebrata, and which approximate them more nearly to the vertebrata. We shall see in the tirst place, that the variability of form in the invertebrata, and consequently of their classification, (a variability which contrasts in some measure, with the fixity of forms and the fixity of classification in the adult vertebrata,) is reproduced and repeated by the variability of lorus in embryonic life; so that if the embrye-

logy of the vertebrata was equally advanced as that of man, and if, according to the system of differential zoology, we divided their embryos of different species and of different ages into classes, genera and species, we should find this classification of the embryos reproduce the principle divisions and marks of that of invertebrated animals. The more we ascend towards the primitive age of the embryos, the more we shall multiply the gedera and species, similar to what we find, in ascending the zoological series, with reference to the polypi, the infuseria, and even the annelida. We shall also perceive, in the second place, that, as in the young embryos, the structure of the greater number of invertebrata is constituted principally by primitive and elementary tissues, the transformations of which cause them to be varied and diversified, as they vary and diversify between them the embryos of the vertebrata. We shall see again, in a more advanced age, that the differential characters of the embryos will be furnished by the alternate balancing of their organisms, especially that of the sanguiterous and nervous systems, and of the nutritive and respiratory apparatus; it is then upon the equilibrium of these systems and apparatus that the distinctive characters of the most elevated classes of invertebrata depend. Lastly, everything that amazes, and as it were, confounds us in the life of invertebrated animals, will be found to have striking traits of analogy in the embryonic life of vertebrated animals, and even of man himself.

CURABILITY OF CONSUMPTION.

(Continued from page 216.)

To Ce I door of the ' Mann to Tours.'

SIR,-In my last communication, I stated that DISEASES OF THE HEART form one class of the autagonisms of which nature avails herself against the invasions of phthisis. The frequency and variety of heart affections, and their important bearing on the malady under consideration, will, I trust, justify my entering a little further inte details. That tumefaction of the mucous membrane lining the bronchial tubes, takes place in all cases of disturbance of the central organ of circulation, is capable of demonstration, and will, I presume, at once be conceded. The manner in which this tunnelaction arrests tuberculous deposit has been already explained. Disease of the heart, however, will sometimes be found coincident with phthisis. In these cases, the formation of tubercles preceded the cardiac affection. I do not base this assertion exclusively on my own experience: my preceptor, whose opportunities of connecting symptomatological with pathological facts have been equal to, it not more extensive than those of most men of the age, has verified it by the whole course of his practice; in this particular class of affections, a patient who dies of phthisis may have contem-poraneously a disease of the heart: but the latter, in every instance, will be found to have supervened upon the former. It may be safely laid down as a general rule, that, where the affection of the heart is primitive, the strumous diathesis does not exist. In a majority of cases, where the former is subsequent in point of time, the latter is either arrested and cured, or masked and rendered stationary and quiescent. It may not be uninteresting to add that persons who undergo liquefaction rarely exhibit the ordinary constitutional display when the heart is affected. This is particularly the case, as far as regards the perspirations. Dr. Ramadge has shown me many cases in his public and private practice illustrative of these positions. When we find, then, a patient with lividity of the lips, permatient distension of the jugular veins, dyspucer, and anormal action of the heart (without entering into auscultatory minutize) we may, with much confidence, pronounce a favourable prognosis. If these symptoms be moderate, such a patient may, under proper treatment, survive many years. have at times accompanied Dr. Ramadge in his professional visits, on occasions when his opinion was desired on the general health of a family; some of whose members had died of consumption, and where the entire was apprehended to be tainted

from the presence of indications of cardiac disturbance, to quiet the fears of anxious parents relative to one or more of their children. Apropus: Who has not observed the remarkable exception which gibbous, or hump-backed persons enjoy from the fatal effects of tuberenlous disease? This is a singular fact, and worthy of attention. It may be readily accounted for by the displacement of the heart; consequent mucous tumefaction, and an impacted state of the lungs, to which the deformity of the chest in a great degree contributes. Again: has any practitioner met with a case of simple and genuine chlorosis terminating in phthisis? In this malady, there is always some functional disturbance of the heart, which antagonises the disposition to tuberculous deposit. A popular notion prevails, that chlorotic females are either consumptive or likely to become so. It has not escaped the common observation of mankingly that debility is often the precursor and always the attendant of phthisis. The cheek suddenly robbed of its bloom, the eye of its lustre,—

"Pallor in ore, sedens macies in corpore toto,"—apathy and despondency usurping the dominion of the mind, lately so cheerful and elastic; the bud of promise fair, faintly struggling to disclose its petals, and drooping on its feeble stem, present a group of imagery sufficiently melancholy to awaken the worst forebodings. It may console this unhappy class of patients to learn that the very series of merbid changes, which the system is undergoing, securely defends them from the greater perils of phthisical disease.

When life has sometime passed its meridian, primary deposits of tubercles are of very rare oc-currence. The disease, if met with, had its origin at some anterior period. At and after this time of life, there is a venous preponderance producing mucous intumescence; this is not necessarily so considerable as to superinduce catarrh, but sufficient to prolong the expiratory act,-the sure sign of obstruction somewhere in the respiratory organs. The practised anscultator will readily detect the prolonged expiratory murmur. From this we might deduce as a corollary, however heterodoxicallit may appear, that a certain amount of disease is almost essential to prolong life to the full term of its natural duration in this climate. Even our winters, by causing suppressed cuticular secretion, internal venous congestion, and mneons tumefaction, &c., have a share in impeding the advance of diseases that, otherwise, would have had an earlier fatal termination; if the climate has its bane it contains also the antidote. Looking at the question in the light I view it, the very variableness of the temperature, so far from increasing the amount of phthisical mortality, factually decreases it .- I now proceed to the next division of my subject.

TUMOURS OF ANY SORT ON THE WINDPIPE, OR ITS DIVISION.—These are useful agents here in the hand of nature. The first I shall notice is bronchocele. The mechanical of pressure this kind of tumour is sometimes lateral and sometimes in an antere-posterior direction, according to the form and place of its enlargement. The amount of obstruction determines the amount of pulmonary onlargement, vesicular emphysema, and dyspuca. I appeal to the experience of medical men, whether they have ever witnessed a case of fatal phthisis in a patient labouring under bronchocele? No eavity can exist in the lungs, in the face of such an impediment. Let me again repeat it,—here the contraction of the windpipe prevents the free egress of the air, imprisons it in the air cells, and makes the lungs excessively voluminous, i. e., though the bony compages of the chest are pushed outwards in every direction, and the convexity of the diaphragm diminished, yet the expanded lungs not only till up the additional space thus gained, but would occupy more if obtainable. How is it possible that under these circumstances an excavation can exist in the lungs? or that small cavities, formed by the recent solution of tubercles, from some accidental affection, should not be rapidly closed? These may form from inhercles which had lain latent for years, but cannot progress, nor can a new crop arise in this expansive state of the pulmonary tissue.

some of whose members had died of consumption, and where the entire was apprehended to be tainted with the disease. He has frequently been enabled, deposits, and many adults refer their dysphocal

affections to an attack of eroup in infancy, which, I would observe, is always produced and kept up by irritation, from the mechanical pressure of the sularged gland, acting as a foreign body. When children survive this affection they are generally short-breathed, and protected against obthisis in after life.

A congeries of scrofulous tumours is frequently formed at the root of the lungs; or behind and cartially embracing the windpipe diminishing its liameter and acting as before described. Aneurishal tumours are, also, powerful antagonists to obthids. Thave lately been shown by Dr. Ramadge, it his valuable museum, a specimen of aneurism of he aorta, protuding at the point where the traches of directics into the bronchi. The case was operated upon by the late Mr. Earl, ten years back, to relieve

affocative dyspucea.

The operation was admirably performed, the man, however, died; and it appeared, on autopsy, that the opening had been made above the seat of the obstruction, which hav at the bifurcation of the rachea. His langs exhibited the usual traces of a previously well-marked phthisical condition; arcested, no doubt, by the intervention of the tumour. Among the other obstructions worthy of note, I might mention enlarged bronchial glands at the root of the lungs, and along the course of the principal bronchial ramifications, and calcareous deposits also, in situations where tuberenlous matter nad previously existed, but had either made its escape or become absorbed.

Discurries.

(Fold Continued)

EXTRACTS FROM FOREIGN JOURNALS.

From the Berlin Medicinische Zeitung, for the 'Medical Lunes,') On the Puerperal Ferer in Peitz, 1842.—By Dr. Schlesier .- This paper contains some observations on puerperal fever, but of no practical value: he gives six cases, which he considers as completely formed puerperal fever, two of which died. Some of the cases were without any local affection of the uterus, but with typhoid symptoms. The 1st case was cured by bleeding, large doses of colonicl and mercurial immetion – the 2nd, after a relapse terminated fataily on the 21st day, the treatment was bleeding general and local, merenrial inmetion; digitalis and kali hydroiodic to set bounds to the exudation with which the case terminated.—In the 3rd, of which the symptoms are not given, phosphoric acid had a surprisingly good effect.—The 4th was fatal, but was certainly not a case of puerperal peritonitis but rather of puerperal irritation, causing attacks twice daily of ague. These were reduced to attacks at intervals of from one to two days, by strong doses of quinine and opium, and removed entirely by strong doses of decoct, cinchon, and opium, just before the attacks, but this being superseded by infus, arnicæ flor, a relapse followed—the disease was removed in 8 days by returning to the former means. She however died at the end of 5 weeks from a relapse caused by eating some indigestible ber-ries.—The 5th case recovered. The treatment was local bleeding, calomel and mercurial inunction followed by extract rhatan.-The 6th ease was enred by extract rhatan.—the woman having irritative fever, consequent on an enormons bleeding, the extract, einchon, was given, but producing unpleasant symptoms, was

Devoction of Galls as an antidote to Creata Virosa, by Dr. Mayer.—On the morning of March 13th, four children of 3, 5, 5, and 6 years respectively, having found some roots of cienta virosa in a brook flowing past their village, ate the greater part of them, supposing them to be parsnips. The youngest child was immediately seized with violent pains in the bowels, vomiting, and convulsions, and expired

supersoded by the rhatany extract.

before aid had been sought, about 1 P.M. The parents of the other children, hearing what had occurred, and having found a root of the plant on one of the children, quickly sent for the ourgeon of the place, who sent for me, giving them in the meantime large quantities of milk When I arrived, about 2 P.M., the three children had vomited a little only, from ipecae, which had been administered. Their whole bodies were cold-the countenance pale and sunken-the pupils dilated and immovableviolent pain in the howels, and general convulsions. In two, the recollection was quite gone, the third complained at times of noise in the ears, and giddiness, and then fell into a soporific state. In one the breathing was weak, and scarcely audible, in both the others, there was unequal snoring, at time - interrupted by hiccough. The heart-beats were without rhythm, often stopping for some time, then followed by stormy pulpitations. A large dose of sulph, zine was immediately given, which was followed by frequent strong vomitings, and many macerated, but easily recognisable, bits of the roots were thrown up. The vomiting was encouraged and eased by bland drinks, and rubbing upon the region of the stomach. same time, clysters with vinegar were administered; cold applications to the head, horse radish, and mustard plaisters were applied, and the cold extremities rubbed and covered with warm flannels. Within an hour, the narcotic effect, convulsions, and bowel pain were, in a measure relieved by the frequent evacuations The stools were upwards and downwards. thin, and colored quite yellow, by the bile. A prepared strong decoction of galls was now administered on this day in large and frequent doses, on both the following in less, and less frequent, and indeed with the best effect; for the threatening symptoms became gradually ameliorated. The three 1a ients were completely recovered in 5 days, with no ill effects remaining. The decoct, galtar recommended by Phöbus and Menrer, or rather the tannin therein contained, in these cases effected everything which could be desired in an antidote. For this most powerful root at this season contained a most intense poison, and it was eaten in considerable quantity. The small root found upon one of the children weighed 15 drachus, and indeed taken upon a nearly empty stomach, about 10 A.M., the breakfast, as is well known, being very early in the country: in fine, the poison had abundant time, during four hours, to develop its destructive effects in such young and irritable subjects. Consequently, the poisoning was very violent, as its effects suffl-ciently evidenced, and nevertheless the antidote, (after the previous vomiting indeed,) caused every trace of intoxication to disappear in a short time, in a simple, reasonable, and certain manner, without leaving behind the least prejudicial effects upon the health. I can, therefore, with as full justice praise the decoct. gallæ, as an antidote to cicuta virosa, as Dr. Ludicke has praised the tannin in poisoning from stryclinine.

Dissection of the dead child was not allowed; the little corpse, although it had lain 3 hours in a warm room, was still in every joint; the back, arms, and legs were of a brownish blue color—the fingers greyish blue. The belly was swollen, and sounded on percussion—the face much swollen—the eyelids half closed—the balls white—the corners quite clear, and the pupils strongly dilated; the lips were violet blue, and from the fast-closed mouth and nose flowed out a bloody slime.

them to be parsnips. The youngest child was immediately seized with violent pains in the bowels, vomiting, and convulsions, and expired firmed by UR. SEBREGONDI.—Since I cm-

ployed this excellent medicine, first reconmended by Dr. Geigel, in the late epidemic hooping cough, in a great number of eases, at least 90, with an effect exceeding my highest expectations, and which I have already published in the Heidelberg medical annals, I have had opportunities of testing the healing power of this medicine in the latter stages of this disease, and now communicate two, out of many cases I have lately observed.—1st Case: A girl 4 years old had been teazed 3 months with an obstinate cough, for which much medieine had been given in vain. She had an attack in my presence, which I directly recognised as hooping cough. It ended in vomiting and expectoration of tough white mucus, streaked with blood. In the day time it came on nearly every half hour—in the night it oc-enred six or eight times. Immediately after the attack, the child wished for food; in other respects she was tolerably well, but was manitestly emaciated-her countenance was pale, and the tongue covered with a white slime; the appetite so great that it approached to voraciousness-the abdomen tumid, and the bowels sluggish.

CONTRACTOR STATE

From all these symptoms it could not be mistaken, that he was in the third stage of hooping cough, which had so long continued; with this was complicated a large quantity of impurities in the lesser bowels. According to my views the evil here lay, in a chronic enanthem of the epithelia of the mucous membrane of the cells of the lungs, which, separated in the form of mucus, irritates the tender papillæ of the nerves of the cells of the lungs and mucous membrane of the bronchiæ, and in this manner, according to the well known laws of the healing power of nature, calls forth the attacks of cough to remove this mucus. The affection of the mucous membrane of the alimentary canal, I held as secondary, but yet so intimate that in case I could remove the first, the latter must be relieved. I ordered the following mixture-F Tauni puri, gr. vj; ext. Belladon, gr.i; ext. cientæ, iv gr., solve in infus. sennæ compos. lij; aq. fænicul, 5. 8 gr.; althæ, 5ij. M. half a table spoonful to be given every two hours; at the same time a plaister was laid upon the chest, composed of emplast, cicuta et adhæsiv. The medicine soon produced fluid stools, and scarce had the child quite finished the mixture than the hooping cough was entirely gone, and did not return, as I was convanced by later visits.

2d Case: My advice was required for a boy 6 years old, who, together with his three younger brothers, had suffered three weeks from hooping cough. The attacks occurred every half hour during the day, and even in the night, as frequent, followed by strangling and vomiting of a small quantity of muens. The breathing during the free panses was quick, the tongue coated vellowish—the thirst great appetite quite gone—the abdomen tense—the bowels sluggish. The boy took the following: -R. Tanni pur, gr. vij; ext. cicutæ gr. iij; solve in infus, sennæ comp. Bij; syr. althæ 5vj. M. half a table spoonful every two hours. Eight days afterwards the grandfather informed me, that the boy had completely recovered, and also his three younger brothers, to whom I had given the tannia in a simple vehicle, and in whom no complication was present.

A singular Cuse of Pustula Maligna.—This was caused by the sting of some kind of fly. Besides the malignant pustule, the whole arm was swollen with fever: the lymphatics shewed themselves highly inflamed by red lines along their course. It was removed by the use of aqua oxy-muriatica internally and externally, as a fomentation.

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To re-proceedily informed that the rule is to pay in A number of inversitions (a long time e epected) have not get reache bus, and as we make the se obligations debts of homen, we trust that this gentle memento will not med repetition.

THE BRITISH BULKNAL OF MEDICAL NEWS.

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THE ADVANTAGES OF ADVERTISING

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THE MEDICAL TIMES.

SATURDAY, JANUARY 7, 1843.

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W+ know, of course, that nothing is more absurd than the folly of offering the Government of one country as a perfect exemplar for that of another. Good is only good in its fitness and adaptation. Circumstances are to things what usage is to words-the vis atque norma, and the about as wise as reasoning without facts, or prophecying without foresight. But yet there are certain broad principles acting in a penalty of from 10 to 50 ducats, and va-

a number of ideas, forming essentially the moral nature of man, must have, at least, a general application to the natives of every country. Amid all our varieties of mental colour (so to speak) and mental form, there is beneath an essential identity of elementary matter, and thus, though the system which is perfection in this region, may be, if unaltered, mischief and ruin in that-it must yet contain principia of judgment and action, which, if modified with modified circumstances, are capable of as extensive sustained, with variations suited to varying also. temperatures—its essence—its soul—is of all climates.

With these impressions, we have thought that, on the eve of a session in which British Medical Polity must, in some way or other, be altered or remodelled, we could not offer a better loon to our legislators. or our scaders, who have not yet reached decided conclusions, than, by short and accurate descriptions of the different kinds of foreign medical government, to give them an opportunity of detecting the general principles which should regulate the coming alterations. Our first sketch will be on the Medical Government of Austria.

The principal characteristic of Austrian medicine is, its numerous divisions and subdivisions. The military and civil organizations are essentially distinct. In the civil eode we have, first, doctors of medicinesecondly, doctors of surgery-thirdly, masters of surgery (chirorgice magistri)fourthly, barber-surgeons (chirurgier patroni) - fifthly, licensed midwives sixthly, dentists (magistri dentisticar artis). In addition to some of the above titles, additional degrees may be taken, as accoucheurs (magistri obstetricce artis :- and oculists (magistri oculistica artis.)

QUALIFICATIONS AND PRACTICE OF THE DOCTORS OF MEDICINE. - The candidate, before he can inscribe himself as studying for this degree, must be at least 18 years of age-or, if extraordinarily distinguished during his preliminary studies, 17-must prove by certificates a comse of twelve years' constant education, four of which must have been in the National Schools, six in the Gymnasia, and two at a University, in the Faculty of Philosophy. After inscription as a candidate, which must take place cither at Prague, Pesth, Vienna, Pavia, or Padua, he must give five years to medical studies. The examination, on admission, is not represented as severe. The diploma then given, opens the whole Austrian coupire to the doctor's practice, without, in any case, an extra charge. If not educated in Vicuna, however, he must, if he would practice in that city, undergo a legislation which pays no regard to them is second examination, which is considered a very rigid one.

Doctors of medicine are restrained, under

all good Governments, which, based on tious periods of imprisonment, to purely medicinal practice. Accouchments are for bidden to them.

The position of doctors of surgery is analogous to that we have been describing, except that their studies take a surgical direction, and that they undergo a screec xamination. Medical practice is forbidden to them as well as all ocular operations, nuless there be a special diploma. As doctors of surgery, in addition to their own especial branch of seience, have been obliged to master that of medicine also; and as Goapplication as there are human beings to ap- vernment extends its patronage by preferply them to. To use another illustration - ence to those who have the double qualifiwhile the frame-work—the body—of a cation, there are now very few doctors of good code, must be lodged, clothed, and surgery who are not doctors of medicine

The special diploma for Operative Surgery is open only to the masters of surgery, or those who are doctors both of medicine and surgery. They must study solely in an establishment at Vienna, founded in 1807, by Dr. Kern, and called the "Operating Institute." The studies must extend through two years, comprise both the theory and practice of operations on the living and dead subject, and are finished by an examination. There is no limit to the number. There are twelve operative students, who have more or less distinguished themselves, constantly kept at the expence of the State.

The degree of master of ocular medicine and surgery, is obtained by doctors of medicine and surgery, and by masters of surgery, after a special study of the subject, accompanied by strict proof of ability in that branch of science, and by success in several public operations. Before operating on the eye, this special diploma is indispensible.

The diploma of MASTER OF MIDWIFERY, though not essential to doctors of surgery and medicine, is so to masters of surgery. The preliminaries are, a rigid examination two months' special practice, and a payment of 30 florins.

The Master of Strothy is required to prove having passed four years studies in the National Schools,-having attended three years more in the Grammar School of his district—having regularly attende each half-year in his classes—and an ade quate knowledge of Latin. His profession studies take place at one of the Univer sities, and cost him nothing for fecs. The are shorter than those of doctors, and give the right of practising all over the empir He is restrained by heavy renalties fro practising beyond the limits marked by the character of his diploma or diploma When there is no "doctor," however, during epidemies, he is allowed to pra tisc medicine.

The BARBIR-SURGIONS (chirurgier p troni, or petty surgeous, must ha spent four years in the National School and either given five years to the study " the Humanities," or lived three years apprentices in the shop of a patronus, w is supposed to have taught them La their knowledge in which is proved by a jury vine their profession in the towns in which formed of the State physician of the district and a certain number of "masters" and may practice in every part of the empire, " patroni" of surgery. All this being attested by certificates, their course is now similar to that of the "masters." undergoing several minor examinations, they are submitted to a general examination, which is final. The whole expence, including a diploma for midwifery, which is made essential, is about 85 florius.

The treatment of internal maladies, the greater operations, and ocular surgery, are not, under a heavy penalty, permitted to the "patroni." These men are under singular laws,-First, the diplomas acquired at Saltzburg, Laybach, and Clauserbourg, are only of use in their respective provinces.-Secondly, unless in a State appointment, the pationus cannot set up in business, except as in the case of our publicans—he buys the shop of a retiring patronus, or has a shop conceded to him by the local magistrates. Before 1836when Government made the sale of one of these shops contingent on its purchase by a medical man-these shops were bought by a tradesman, or even a physician, on speculation, and confided to the care of a patronus, who shared the profits. Not unfrequently they were managed by the widow, who similarly arranged for her Besides the proprietors, there are occasionally in these shops a number of assistants, apprentices, or even patroni, acting under their responsibility.

Like many of our druggists in England, the patroni earry on various other businesses, -sometimes they are barbers or farriers, grocers or cab-owners,-and, like our druggists they are frequently charged with engaging in practice far beyond the reach of their moderate skill, to the serious injury of the fully-qualified practitioner.

MILITARY MEDICINE.—As we said, this is entirely governed by its own peculiar laws. The special school is at Vienna, where an unlimited number of pupils are lodged, fed, and taught at the expence of the State. There are six grades of medical men in the army. The principal physician, the Oberstfeldarzt, an aulie counsellor, in the receipt of 1 000 florins yearly - the Stubsurzts, or Inspectors-General, of whom there are twelve, receiving 800 floring yearlythe Regimentzarzt, receiving 600 florinsthe Oberarzt, in the receipt of 200 florins. All candidates for the above ranks must be doctors of surgery and medicine, and possess diplomas as accoucheurs and oenlists. Besides these, there is the Unterarzt, surgeon to a company, with 168 florins of an appointment - and the Feldarztliehe Gchilfe, or assistant-surgeon, with 168 floring also,

The army doctors are engaged for a limited number of years. Those who, in their studies, received a pecuniary allowance from the State, serve fourteen years those who have studied at their own expence, are only held to serve eight years. While in service, they may exci- puff or whiff the smoke of tobacco, and if this the whole finger. The operation was accord-

they are stationed; and, on retiring, they without any further formality or payment.

WESTMINSTER HOSPITAL.

Mr. Guthrie's Clinical Lecture on Injuries of the Head-Case of Spantaneous Cure of Femoral Aneurism - Amputation of the Finger by Mr. Lynn-Improvement in the Affairs of this Hospital.

Sir.,-I had the curiosity to step into the Westminster Hospital last Saturday about one o'clock, and was not a little surprised to find an activity and bustle for which I was totally imprepared at this holiday season of the year. Instead of finding all described, as I expected, the entrance hall of the hospital was in commotion with students, and following the throng, I was soon carried into the operating theatre, where Mr. Guthrie had just commenced his clinical lecture. The lecture happened to be on cases of injuries on the head, resulting, no doubt, from the having system so much in vogue at Christmas time. As the subject in-terested me not a little, I shall endeavour to give you some account of the lecture.

The first case to which the learned lecturer referred was of peculiar interest, and in placing it before his attentive. I might say enraptured, audience, he realised in my opinion, the bean ideal of clinical instruction. It was not a lecture doled out from some book of surgery. It was not a lecture that might be made to suit every such case that has existed, or may exist; it was not a lecture, in other words, of indiscriminating generalities, but a lucid exposition of the *peculiarities* of the cases before him, the reasons which induced him to form his diagnosis and prognosis of each case, and to change and modify the usual plans of treatment. I cannot pretend to follow the learned lecturer through all the details of his lecture, I can only refer, and that in a general way to the outlines of his discourse. The first case which principally occupied the attention of the leeturer was that of a man who fell from a height of about thirty feet, the back of his head striking the curb-stone of the pavement. The in-teguments were lacerated, but no fracture could, during life, be discovered. The patient was taken up in a state of total insensibility, with the pupils contracted and the respiration diaphragmatic, accompanied with a puffing or whitling of the air from his mouth. The patient died, in a few hours after his admission into the hospital, and on inspecting the body a fracture or rather tissure was discovered in the base of the cranium, on each side of the foramen magnum. There was also an effusion of blood on the surface of the brain under the dura mater, and also a laceration of the anterior lobes close by the sides of the crista galli. Mr. Guthrie gave a very luminous explanation of the more prominent symptoms of the case, more particularly those mentioned above, and endeavoured to explain them as far as possible on physiological principles, and was most happy and successful in pointing out the relatire value of each symptom in the establishment of a just prognosis in such injuries. Sterterous breathing, bleeding at the nose and month do not necessarily indicate danger. Even bleeding at the ears, though a more imfavourable symptom, does not necessarily indicate imminent danger; but if the patient, as happened in the case under consideration, puffs or whiffs the air from his mouth as we

symptom exist along with pure diaphragmatic respiration, the case is hopeless. Mr. Guthrie had never seen a case of recovery in which the last-mentioned symptom existed. That symptom, (pure diaphragmatic respiration) may be viewed as the most unfavourable of all the unfavourable symptoms, and the invariable precursor therefore, of dissolution. In the treatment of the case little was done, and the postmortem examination so far as it went (for the spinal cord was not inspected) shewed that no himnan efforts could have been of the slightest

In the second case that of a boy who fell from a height of fifteen fect; the symptoms though somewhat peculiar were less urgent than in the foremost. Six days after the accident the boy became comatose, and in this state was carried into the Hospital with a very low pulse, (about tifty) contracted pupils, and twitching of the muscles of the face. Mr. Guthrie ordered, at first, a very cautious detraction of blood. Four ounces were first drawn off, which proving to be buffed a further detraction was followed up with good effect both upon the pulse and sensibility of the patient. From the good effects of the bleeding rather than from the nature of the symptoms, Mr. Guthrie, conjectured, that the vessels of the brain had been in a state of great congestion, and that, possibly, a partial effusion of blood had taken place. The bowels were kept freely open with caloniel, combined with resinous and saline purgatives, test and low diet strongly enjoined, and the affection, Mr. Guthrie states, is fast progressing to a favourable issue.

At the termination of his remarks on injuries of the head, Mr. Guthrie introduced a ease of extreme rarity to the pupils, which, he said, they had not seen, and would never see its like again. It was the case of a man who had been successfully operated upon for popliteal aneurism, who became subsequently affected with a femoral anemism of the opposite thigh, and which ancurism underwent a spontaneous care. Mr. Guthric had no doubt that the pulsating tumour he had examined, was an aneurism of the femoral artery, and he had urged the man to submit to an operation. But fortunately as Mr. Guthrie remarked, the patient did not follow his advice. Sometime afterwards, when the patient was engaged in some trifling occupation, he felt something give way with a crack, attended with little pain. The tumour, the patient says, was immediately afterwards obviously less, and gradually diminished till it entirely disappeared. From the want of pulsation in the upper third of the femoral artery, that artery appears to be now obliterated, but how that was effected Mr. Guthrie did not attempt to explain.

After the clinique of Mr. Guthrie, Mr. Lynn introduced into the operating theatre a ease of ulceration of the cartilages of one of the joints of the forefinger. The disease had resisted the usual means of cure, and the question came to be, not so much whether the finger should be amputated, as whether the amputation should take place immediately above the diseased joint, thus leaving a part of the first phalanx of the tinger; or at the joint immediately above that, viz, the metacarpodigital articulation. The consultation was carried on in a very editying manner before the pupils, by Mr, Lynn, and that most excellent practical surgeon Mr. White, along with some of the lecturers of the school. It seems to have been the opinion of the majority, that a more useful hand to a labouring man, such as the patient, would result from the removal of

ingly performed with great neatness and dexterity by Mr. Lynn. Mr. Lynn is evidently a highly experienced and judicious surgeon, and cannot fail to be somer or later, appreciated by the public. It is only amazing that the public have not already done greater justice to his merits.

This casual visit I made to the hospital was ettended with much pleasure, and I am not ashamed to add, some information. I assure you, Sir, it is quite refreshing to observe the spirit and zeal which now animates the medical officers of the Westminster Hospital, Whether this is attributable to your friendly admonitions. I cannot tell, but the hospital is now evidently much improved, and if its affairs are managed every day as they were conducted last Siturday, it cannot be long cre this school rank among the most celebrated in London, both for the quality and quantity of the instruction it affords.

If the above report is deemed suitable for your excellent Journal, you may make white use of it you think proper.

AN OLD PRACTITIONER.
Westmarster, James 2, 1813.

THE THORACIC AND ABDOMINAL VISCERA.

est. Thomas's Hospital (

Ar the last evening Conversazione at St. Thomas's Hospital, which we partly noticed, on Dec. 24, Dr. Hodgkin communicated to the meeting some interesting and original observations, regarding the extent and relative position of the thoracic and abdominal viscera in health and disease. Addressing the ancience he said, I confess I feel considerable difficulty at this late hour, in attempting to bring ferward the subject announced to be read before you by me this evening; however, I feel that it is due to, and, that I should not be doing justice to my valuable friend, who has cutrusted me with this communication, if I did not make a report of his examinations, and the result of his labours to you; and I conecive it is scarcely necessary that I should make any apology for an attempt to treat of the subject of the diagnosis and distinctions of disease, or that I should be considered stepping out of my proper comise,

Then, with a view to arrive at a general knowledge of the disease of any part, it is quite obvious that it would be essentially important, that we should know the situation of the parts. We are very often led to suspect that an organ is diseased and when we know its situation, when we distinguish something musual in the situation of that organ, and as some of the organs are, from their situation, placed out of the reach of sight and touch, it becomes increasingly important that we should call in every assistance in our power to arrive at a knowledge of their situation. Such has been the effort of the gentleman who has communicated to me, the paper of which I shall merely attempt to give you, in outline, the principal facts resulting from his labour and his discoveries. I would not, however, have you suppose that I speak for the first time on this important subject, or that the paper I am communicating to you is the first that has been written on this subject, the situation of the thoracic and abdominal viscera: -I should feel that I should be doing injustice to another valued friend if I did not very briefly allude to the labours of my friend Dr. Edward Harrison, who was one of the first, and the most accomplished of those investigators of the diseases of the chest, who had the great advantage of studying under Lacanec, the inven- other at right angles in different directions;

tor of the stethescope. Francis Sibson are very analagous to those of Dr. Edward Harrison, and they are found strongly to confirm each other. Though Dr. Edward Harrison has not published as much as it is to be hoped he will do, you may probably be aware of one important fact which he has pointed out, namely, that the abdominal viscera encroach somewhat more on the organs of respiration than is generally supposed to be the case. I am not by any means stating that all anatomists and practiced observers, have been usually mistaken on this subject; still from the form of the chest they have a greater tendency to occupy a greater portion than probably belongs to them. Dr. Edward Harrison points out one interesting fact among others to which I will just call your attention. the roof of the ensiform cartilage or a little above, there is a bulge on the right side almost in the situation of the thick part of the liver. We may consider the abdominal viscera as soft moveable ingesta enclosed in coats, appearing almost like the fluid contents of a bladder, and of a somewhat round figure. Placed in this situation, we have the round form of the full abdomen, then the lower portion of the liver with the thin covering over that, and the ribs again upon it, then the pressure of the muscles, which makes it assume somewhat the form of the rounded abdomen. which will bear some muscular pressure, tending to produce a depression above the thick part of the liver. I will not pursue this subject further, except to observe that Dr. Edw. Harrison has also pointed out the right way of indicating the position of the apex of the heart resting on the diaphragm. I felt interested on this subject from the first, and I now find from some of the antique statues, that some of the ancient sculptors must have been aware of the fact. I have a drawing of a Faun from the Vatican, in which this bulge is distinctly seen. Thus much, I thought, due to Dr. Harrison to preface. My friend Francis Sibson, the house surgeon of the Infirmary at Nottingham has directed his attention in the same direction (though he was previously perfectly ignorant of what Dr. Harrison had done) and he very soon was led to diseaver the fact that the liver, and the whole of the abdominal viscera somewhat more encroached on the respiratory organs than besuspected. On examining the subject very carefully and investigating the mechanism of inspiration and expiration he noticed some facts which had been observed before, and, therefore, were not totally unknown; but they had not been so generally pointed out as could have been desired. Amongst these he recognised the fact that the lungs ascend considerably higher above the clavicle than was ordinarily supposed, about two or three inches, and dissecting that part, he observed the important use of the Scaleni, as Dr. Williams has very ably shown in his work on the diseases of the chest; and Mr. Sibson has pointed out a small muscle or accessory Scaleni, having a similar origin attached to the external pleura, which covers that portion of the lung. I will not go into the minutize of the situation of the pleura which he has pointed out in the cases of emphysema, where the descent of the diaphragm is much lower than usual, so as to be somewhat below the ensiform cartilage occasioning the liver to descend. In cases of pthysis, too, there is an elevation of the pleura of the lungs. In order to ascertain the position of the parts lying beneath the che. t, Mr. Sibson has adopted a plan similar to that used by Benjamin West to trace forms and transfer them to paper. It consists of a frame with lines crossing each

The labours of this is placed over the object, and upon a piece of paper similarly divided by lines you can make a sketch-though you may not be an artistsufficiently accurate to determine the situation of the organs. One part of the method was having, by perenssion, ascertained the situation of the different organs, to mark them out. and by this means the situation of the viscera became distinctly indicated; and when he came to examine some di-eases, such as enlarged heart, or effusion into the pericardium, some very ctations results were in this way discovered. Whilst alluding to the situation of the liver, it is worth while to notice a fact observed by this gentleman, and which appears perfectly to accord with what Alex. Show has said with respect to the circulation through the liver. In respiration, the descent of the diaphragm was greater than the descent of the lower margin of the liver, serving to show that in the movements of inspiration and expiration the liver must be compressed, and when we consider the character of the circulation, but especially the circulation through this organ, it will at once be perceived this must materially influence the amount of blood in these visceras. This is a very important addition to the researches of Shaw laid before the British Association at the last meeting. It shows that those diseases of the cliest that tend to limit the movements of the diaphragm tend to produce diseases of the liver. No part of Mr. Sibson's observations is more important than his remarks relating to the situation of the heart. When it is materially enlarged, its circulation, like in emphysema of the lung and pneumonia, has the effect of depressing the diaphragm pretty generally. When the pericardium is distended, either by inflammatory effusion or secondly, as Mr. F. Sibson sometimes pro-duced, by an artificial dilation after death, there will be produced a more considerable bulge, than by the enlarged heart which occasions a more generally diffused change in the external appearance. We may apply this to cases occurring in the living subjects, that is to say, effusion into the pericardium, making a further extension at stated periods: and Mr. Sibson has observed that the increase of the pericardial offusion, as might naturally be expected, generally increases the extent of the fullness felt on both sides of the sternum, up almost to the claviele, and lower down depressing the diaphragm much higher than is the case with the enlarged heart; for this reason, that the extent of the fluid is distributed over a greater space, places the lungs apart, increases the separation between the two upper lobes of the lungs and produces a greater elevation of the dull sound than is the case with the enlarged heart. As we trace the progress of the disease we shall find we come to a peculiarity which it is right to observe, -we find a diminution of the fulness; but, after a certain period, a greater increase of the fullness above takes place. This, Mr. Sibson attributes to the very important fact that adhesion has taken place; and when adhesion has taken place between the two surfaces of the pericardium, the amount of dullness is greater, although the space is not large. Then there is another curious fact, which is observable in those cases of adhesive pericardium. I have mentioned the movement increases the ordinary respiration, and naturally extends the resonant portion of the chest, and also affects the non-resonant portion of the chest; therefore, if we take the fullest inspiration, the situation of the dullness will descend, and we have a highly increased amount of resonance above that where the complete adhesion of the pericardinm had taken place, and there is not the same amount of motion, and

the dull portion of the chest corresponds to the pericardial adhesion, and corresponds to the region of the heart. I shall now advert to another interesting fact that has come to light in the examination of the movements produced in respiration. Mr. Sibson paid particular attention to the movements of the ribs, and he noticed that whilst there was considerable movement in the lower ribs, there was less separation between the 7th and 11th ribs than the other ribs; and this calls to my recollection a fact I have constantly observed in the numerous inspections that it has been my place to make: -- I was considerably struck with the fact, that whenever the cartilages of the ribs are ossitied at all, it is almost certain to be the cartilages of the 7th, 8th or 9th ribs. I did not comprehend the cause of this, whether it was disease or not. It appears to me, now, from what Mr. Sibson has pointed out, that there is less mutual movement between these ribs than the others, which seems satisfactorily to account for the eartilages of these ribs being more prone to become ossified than other ribs. Some observations have been made with regard to the situation of the stomach, which is a very important organ for us to ascertain the situation of, more so than appears to be the case at first sight; inasmuch as the situation of the stomach enables us, on the left side, very accurately to determine the situation of the diaphragm, and the situation of the heart above it.

In bringing this paper to a conclusion, I should observe, that Mr. Sibson assures me that the constant repetition of this mode of investigation, and recording the limits of the different organs in this very accurate manner, has had the effect of making him so intimately acquainted with the portions of the organs, as if for a moment the whole of the flesh and the skin of the ribs was removed, he has such familiarity with the situation of the organs as greatly to facilitate his knowledge of their condition. There no doubt that much of this kno xledge will be useful to others. But there is one important reason which has induced me to bring forward this subject, namely, to allude to the fact of the great addition to our knowledge from such researches, and to those made by the Societic Medicale des Observations of Paris; their statistical character and their great accuracy in determining disease independently of the important facts thus brought to light, must, undoubtedly, be of great importance. In this way we may hope to arrive at clairvoyance-not like that of the advocates of mesmerism, but one easily within the reach of all, and thus arrive at a knowledge, which others have been represented as acquiring through the mystery of the operation of the mesmerisers. It is only by individual application that we can hope to arrive at this most important knowledge-the locality of the organs, and consequently the state, and the amount of disease. Having thus brought before you, in a very imperfect manner the result of a very laborious suite of investigations, I cannot conclude without expressing that, as a member of the medical profession, Mr. Sibson is warmly entitled to our encouragement and thanks.

HAIRS GROWING ON THE TONGUE.-The patient was a medical student, who after complaining for some time of dyspepsia and a sticky sensation in the mouth, discovered hairs of considerable length grew from his tongue. They were detached in vomiting, but they

THE CRICHTON INSTITUTION FOR LUNATICS.—DUMFRIES.

WE have just received the able and extremely interesting Annual Report of this Asylum. is ably drawn up by Dr. Browne, the resident physician, and we cannot deny ourselves the pleasure of placing before our readers a few of the more interesting extracts. It appears that the inmates of last year, including the new admissions, numbered 125. Of these 18 were discharged recovered, six were removed, or improved eight died. This statement leads to the tollowing judicious remarks-

On Asylum Statistics.

The more numerical results of treatment during the past year, are satisfactory. The proportion of recoveries to admissions is higher, and of deaths to the daily average of immates, is lower than is generally the case. But such facts must not be received as evidence of the curability or the mortality of the disease. Were they regarded in this light, they would represent the former lower, the latter bigher, than they really are. The truth is, that except in cases of extreme poverty, or where the manifestations of derangement are a unisance or a source of terror, patients are not consigned to public institutions until they are found to be intractable-mutil the established resources of medicine have been e danisted, and they are regarded as inenrable. Asylums have thus become retreats for the confirmed insune, rather than hospitals for the cure of insanity. The higher the rank of life to which the patient belongs, the more protracted is the ordinary treatment, the greater is the repugnance to have recourse to isolation. In private practice, where recent cases are promptly and judiciously treated, the success is great, and ought to be so, seeing that of chronic cases, which have been treated and despaired of, 35 per cent, are, under isolation, restored to comparative sanity. Other circumstances disturb such calculations. The majority of patients enter Asylums infirm, debilitated, diseased; many labour under complaints which are inevitably fatal, a circumstance tending to raise the apparent mortality of the confined insane. Relations often remove patients when dying or in danger, a circumstance which tends to diminish the apparent mortality. The amount of recoveries like manner, not fairly estimated. The standard of sanity held by physicians in charge of the insane, and by which they measure the capacity of individuals who have improved, or are improving, is too high, and abstract, and fluctuating : s not, and cannot be, founded upon a knowledge of the previous mental calibre and character, but is framed from their own notions of what ought to be the sane and healthy state in each case. It will correspond to the intellect and acquirements of the physician, and not to those of the patient. A jury, collected in the ordinary way, would be more competent judges.

The following instances are interesting as illustrative of that too common phase in mental hallucinations-

Suicidal Mania.

That a correct notion may be formed of the ingenuity and reflection exercised at a moment of extreme despair and despondency, and upon the brink of eternity, and of the foresight and attention which are at all times, and under all circumstances, necessary, and which, however well devised and rigid, may be, and will be, frustrated, a few examples of the contrivances resorted to may be given. A young man, a volunteer into our community, was bled by leeches in the temples; a towel was, by the care and kindness of the attendant, bound round his head; he retired to bed, was repeatedly visited by the night-watch, and, upon one occasion, was detected endeavouring to suspend himself by means of the towel to the corner of his bedstead. Another, a well educated person, baffled in his design and effort to arrest respiration, by the small size of the pocket handkerchiefs which are issued, attempts to surprise

throat. A gigantic and powerful man, instigated by the agony of terror, and the impression that he was to be sacrificed, after incessant struggles to destroy himself, and all those around, was found in the act of self-strangulation, although his hands were partially confined in order to prevent the accomplishment of his designs, and although he must have known that he was almost under the immediate supervision of the night guardian. Foiled in this plan, he refused to take food for several months; but discovering that the wants of the system can be supplied by means of the osophageal tube and feeding funnel, in defiance of the will of the individual; and as we have remarked in similar affections, although willing to endure death, unwilling to endure a disagreeable but transient sensation, he abandoned abstinence as ineffectual, but, at the same time, attempted to break, crunch, and swallow window-glass, with the same de ign. To meet this combination of distressing symptoms, it has been necessary to associate a superimmerary with the ordinary attendant of the gallery. A young woman possesses herself, while in the airing ground, of stones and pieces of coal, to which she gives angles and sharp edges by rubbing on the walls. She then swallows them thus prepared, and so far sucecceds as to obstruct the deglutition of solids for weeks. A lady, long a member of our family, who had wen the affections of all who could appreciate her gentleness, or estimate her suffering, passed through the various stages of anxiety, gloom, dejection, until under the promittings of a permanent despair, she seemed to concoct a scheme for self murder, in which every accessible means were to be tried in succession, and of which she spoke with composure, even with mirth, admitting, at such moments, that she had not fortifude to extinguish life suddenly. At first this design may have been suggested by a desire to put her boasted immortality to the test, or to prove it to the scepties around, for she avers and believes, and there is no faith so sincere, genuine, and steadfast, as that of the insane, that she will not and cannot die: but, subsequently, she became incapable of devising or abiding by any consistent plan, and in refusing food for months, in attempting strangulation and precipitation, she obeyed the ruling impulse of the moment, to escape from exquisite pain. Her determination being known, she was placed in a room, from which every article of furniture was removed—which, in fact, contained nothing more than a French bed, without canopy, and a carpet. Notwithstanding these precautions it was ascertained that she had pulled the carpet from the floor, collected the nails by which it was secured, and swallowed twenty-four of them. She was then removed to another apartment, where there was no carpet, and an attendant was appointed to remain constantly with her. The hed in which she lay was covered with cotton chintz, which was attached to the wood by nails. Stealthily, silcutly, and without changing her position, or disturbing her companion, she succeeded in extracting a number of these, which were likewise swallowed. Since this period she has stolen and introduced into the stomach a thimble, and a small padlock. But what is even more startling and instructive, is her confession that when comparatively sane and screne, when most tensted, and most worthy of confidence, she was in the habit of decouring stones, pins, needles, and other small objects immunerable, with the settled resolution to sap the foundation of her strength and

Recreation of the Insane.

In a country like this, it is natural that industry should be insisted upon as an important agent in the treatment of insanity. But recreation, if well selected, is but occupation of a cheerful and agreeable kind, and has certainly been less systematically employed as a means of cure than it deserves, and than a consideration of the capabilities of the unhinged and unhappy mind could warrant. In accordance with these sentiments, the patients have participated in every public annusement which combined present gratification with prospective benefit, and in which they could grew again, and when the author saw him the attendant engaged in shaving him, by starting mingle without excitement or injury to themselves, they were an inch long.—Dr. Forbes's Review.

formed part of the crowds which frequented the rooms of the Exhibition of Painting, and objects of Natural History, indulging each one his own taste or fancy, inmoticed and undistinguished, They have examined and criticised unstaringly specimens of historical painting, one is a member of an $\Delta v t$ Union ; others have visited the sculptor m his studio. They have witnessed races and regattas. The camera at the Observatory has presented them with a map of Nithsdale, and tran perted them in fancy to distant and interesting objects, the antiquities or picturesque beauty of which they have at other periods been enabled to inspect by the assistance of the omnibus, which has carried parties to Carlaverock, Newabbey, Lochmaben, Friars' Carse, &c. They have made pedestrian exemsions; they have behed in the river. They have been auditors at Concerts for music of various kinds; at lectures upon Temperance. They have been spectators at the Circus; and latterly the Theatre has been an object of great attraction. This preddection has been encouriged for many reasons; but chiefly because the Drama conveys much amusement, and some information, without imposing either sustained mental exertion or attention, supplying pastime without passion, knowledge without study; suggesting truth by means of fiction; and appealing to the happy, the cheerful, and mirthful parts of Of the correct conduct of those who attended, and of the unobtrn-ive but evident expre-sion of enjoyment which they gave, their same companions may speak. At home, concerts, pubhe readings, evening parties, dances, games at lowl, billiards, summer-ice, eards, chess, backgammon, have afterded means of diversifying the dull routine of discipline; although, perhaps, the exhibition of the magic lantern yielded the most unalloyed pleasure, and to the greatest number.

Mental Culture of the Insanc.

A determined suicide has been seduced, into temporary forgetfulness of his woes, and afforded an exemption from his purpose while translating Guizot and Vertot, turning from the transcendentalism of the former, to the bald narrative of the latter, as less trying to his powers. Another centleman, who is omnivorous in reading, and passes over all works with a railroad speed has been placed in connexion with a book-rlub that his insatiable appetite may be more readily supplied. Our own small library is in constant eirenlation, as may be learned from the fact that during the year that has terminated there have been 45 readers, and about 700 issues of volumes or works have been made. These are regular students, and do not include the casual readers, or the triflers over newspapers and periodicals. At one period the following books were in the pos-session of patients—Thierry History of the Norman Conquest, D'Aubigne's History of the Reformation, Gil Blas, Shakspeare, and many of Sir Walter Scott's novels, &c, a catalogue which shows the varied and elevated tastes which must be supplied, and the identity of the pursuits of many of the insane with those of men of strong intellect and fervid gennis. To one of these students a daily task was allotted, and he subjected himself to examination by the medical attendant, in the same way that a course of history should be conducted. Another busied himself in compiling a common-place book , a third translates a treatise upon Dipsomania, ostensibly to facilitate th labours of the Superintendent a fourth seans the newspapers, and extracts all facts bearing upon a topic of interest; while a fifth actually turnishes to a periodical the creations of his fancy, The more remarkable events of our recent domestic history have been chronicled by an individual whose former literary liabits and protessional pride are both gratified in officiating as the delineator of what others see and feel, but cannot describe. Indeed so numerous are the educated, the imaginative, and the learned, among our inmates, that an Asylum Annual is contemplated, and in progress. These avocations are not imposed as burdens; they are suggested as recreations; the mind is occupied, not taxed or fatigued. In a case where intemperance had first enfectled the reason, then prostrated the will before the liabit

acquisitions and accomplishments of a respectable education, instruction was resorted to as a means of cure. The man who had lost, or, by his own of cure. The man who had lost, or, by his own conduct, had obliterated the first elements of knowledge, was taught, and successfully taught to spell, and write, and cypher anew. The effort was made to reconstruct the mind from its own ruins; to restore it stability by giving to it the power to act in new combinations, and independently of the propensitie,

Singular Efficies of Opium. Opiates have been administered, Jess, however, for the purpose of inducing sleep than of subdning restlessness and excitement, of soothing and tranquilli ing irritation, and of to ting the strength and efficacy of different preparations. Some of the drug, were given to such an extent as would startle those who repose confidence in the timehonoured do e of days gone by. The quantities even alarmed those who are accustomed to deal with the singular power of resistance to medicine. which is often a characteristic of insanity, and who are somewhat sceptical as to the boasted inthence of hypnotics. The course was, in fact, interrupted from fears that, although no visible effects followed the administration of the dose, it might act detrimentally, although insidiously, upon the nervous structure, as it would certainly upon the organs of as imilation. The patients were directed to take what was ordered in the morning, as it is always difficult to ascertain whether, or how long, or how compilly a lunatic has slept during the night, as the repeated visits of the night-watch, by which this could be done. disturb the patient and dispel the inclination to slumber, and effectually neutralize whatever sedative property the medicine may possess. It was further necessary to watch for other effects, and to detect any drowsiness, or lethargy, or sickness, or increased tranquillity, which might exist, and which might fairly be attributed to the percetic. This plan put the property to a severe test, as the light, noise, society and occupation among which the subject of experiment must muscoidably be placed, act in direct opposition to the tendency xpected to be induced, and with great energy in temperaments so vivacious and inflammable as generally accompany insanity. There are likewise grounds for supposing that the habit of taking rest at particular hours, the periodicity of the system, contribute much in insuring the efficacy of opintes administered in the evening, as well as the contemporary exhaustion from exercise, the darkness, silence, and solitude. But after making all nece sary and reasonable allowance and deduction for these antagonist circumstances, it has occasioned surprise that, whatever the dose given, sleep has searcely ever followed. Other effects, and these very marked, have been traced; but although triple, quadruple, in some cases six times, the amount of the ordinary dose, neither drowsiness nor sleep have been observed. But the facts that patients who were active and lively, presented dilatation of the pupil, could not read print of an ordinary size, heard dully and imperfectly, and appeared to have neither faste nor smell, seem to indicate that the narcotics used have a special and, it may be, unobserved effect upon the nervousystem, up art from, and altogether independent of the production of sleep. Here was the system saturated with henbane, opinm, pervigilium persisting, while there was proof, that a powerful impression had been produced. Further, the reistance to the influence of narcotics does not seem necessarily to depend upon the pre ence of that excitement, or irritation, or organic of the nervous system, causing, or coincident with furious mania; for in many of the cases tried, beyond the existence of one delusion, that system might be considered in a natural and healthy state.

The Dreams of the Luxane,

We are not content with this investigation (into all the minor habits and characteristics of the insane inmates); but where the patient does sleep, we follow him into his secret thoughts, into his very dreams. A record has been regularly kept of all remarkable dreams, phantagies, and visions, which have made so deep an impression as to influence the conduct of the individual, which

or have been afterwards communicated. Latterly, certain patient have been selected for observation who are of marked character, whose habitual trains of thought are well known, and who spontancondy or willingly describe their feeling., their confidence is sought and secured, and the disclosures of every night are carefully preserved This scheme has been adopted for the purpose of determining how far the night-dream corresponded with the day defusion; whether the events of the day excreised a similar power over the insane as they are believed to do over the same, and to what extent the mind is rational and responsible during sleep, somnambalism, and those states between deeping and waking. The enquiry was new, and has led to a collection of most interesting and extraordinary information as to the laws of association during sleep, which cannot be dis-ented here. It has established, so far as it goes, the identity of the dream with the delusion. howing that the current of morbid thought flows on uninterruptedly through the agitation and the vivid impressions of the day, and the quiet and repose of the night. In some instances, it appears that previous acts and feelings enter into, and colour and direct the dream. Thus, immediately after one of our festive meetings, the visious of one of the party is found to contain a picture of glittering and gorgeous dresses; and of another to display a dance performed by the wives of the Goth and Vandals in St. Paul's Cathedral. Much more frequently the dream, regarded as a reality, mentds and modifies the conceptions and delusionof the waking state. Thus one man is persuaded that he is destroyed by magnitism, silent combustion, and complains to the anthorities that attempts are made upon his life; a second dreams that he is possessed of corn and wine, and oil, and distributes them next day; a third that he saw the books of the nation in the hands of the Lord Chancellor, and that a long black stroke was drawn across the national debt; and in the morning he announces that he is about to pay it. It is as difficult to convey any adequate notion of the Arrayagance, the grotesqueness, and sometimes the splendour of these reveries, as to follow the unsound mind through all its waywardness and wanderings; but it is consolatory to discover that the prevailing charateri thes are pleasure and happiness. Of about seventy dreams detailed with great minuteness, four either owed their origin or their predominating features to fear; seventeen to the gratification of some sense, or the realization of some hope, wish, or ambition; four spring from re-awakened affection or humanity; three were occupied with political traumphs; three were disturbed by anger; nine were tinged with the harmless superstitions of early days; five seemed to be the offspring of vanity; two of pride; seven of suspicion; nine of avarice or the desire of aggraphic eneut; three were busied with martial pomp and glory; and three with the more peaceful operations of the farm; and of the total number, whether pure creations of imagination or andi-tinet and distorted recollections of past events, not above fifteen could be regarded as giving pain or suffering, and as calling for sympathy.

THE LATE ACTIONS IN THE COURT OF COMMON PLEAS.

I de lan refute Meller Lone ?

Sig. Allow me, through the medium of your journal, to draw the attention of the members of the medical profession to the anomedous and unjustifiable verdiets recently returned in two actions tried in the Common Pleas. The plaintiff, in both in stances, was a person of the name of Beale, residing at Stepney,-the defendants, medical men, practising in the neighbourhood. A gather many facts from the evidence adduced, and glean from that, that the plaintiff was not entitled to a verdict legally, "upon my honour." The action was for slander. The plaintiff, Beale, it appears, was originally a disserting-room beadle at the Aldersgate School of Anatomy, under Mr. Tyrrell, at a salary at from 20s, to 30s, per week, in which of indulgence, and ultimately swept away the have excited some powerful emotion at the time, capacity he distinguished himself by the neatness

with which he injected the bodies for the use of the students. Having a soul above buttons, he so licited Mr. Tyrrell's permission to attend his lectures, with the avowed object of following the profession at some future time—a request that was most graciously accorded by the surgeon of St. Thomas's. He was also at one time connected with the school at the London Hospital, in the same capacity as at the Aldersgate, or, as Mr. Merritt states, he was curator in the museum, the office bearing the additional titles of dissectingroom beadle, and assistant to the lecturer. Mr. Beale, for having been admitted to attend lectures by the professors, we suppose we must call him Mr. —, now settled in practice at Stepney, and managed to pass the examination at the College of Surgeons, in July, 1841. In the mouth of December of the past year, he was called in to attend a Mrs. Neele, whose family he had attended for several years. She was laboring under inflammation of the bowels, cansed, it is said, by a twisting of the gut, of which she died uine days after the attack commenced. A medical practitioner in the neighbourhood, named Self, conceiving the case had been mistreated, feeling indignant at the mode in which Mr. Beals had cutered the profession, and perhaps annoyed by losing some of his patients, caused an inquest to be held, when a verdict of natural death was returned. words charged as libellous were uttered by Mr. Self, to a patient of his, who had signified her intention of employing Mr. Bede, not because she was dissatisfied with Mr. Self, but because her friends had pressed her to send for Mr. Beale. The remark made was, that Mr. Beale was an unqualified practitioner, and liable to be prosecuted daily, while a further implication was made, that Mrs. Neele had been mistreated by him, and that he was only a dissecting-room porter. On this charge the jury returned a verdict, awarding £160

Now let us see how far the evidence sustains the verdict: and first, as to the statement, that Mr. Beale is an unqualified practitio.cr.—At the trial of the action, his council put in the diploma of the College of Surgeons, and it was not denied that he was a member of that learned body, the diploma of which, he obtained several years after he had commenced practice. But the licen e of the Worshipful Society of Apothecaries, according to the newspaper report, was not produced, and one of his own witnesses stated on eath, that he had been told, that an action was pending, which had been brought by the Company against Mr. Beale, for practising without their license. It is fair to presume then, that the plaintill had not passed the examination at the Hall, more especially as his advisers learned in the law would certainly have produced the certificate, if he had it, as it i the only Lucal Pagor a general practitioner can possess of his medical qualifications. It has been proved over and over again, that the diploma of the college will not qualify for practice: the general practitioner must have the certificate of the society, or have been in practice before August 12th, 1815, or he is an unqualified practitioner. If then, as I presume, Mr. Beale had not the license to practice from the Apotheraries' Company in his possession, Mr. Self was right in describing him as "an unqualified practitioner, liable to be prosecuted daily," and as such, Mr. Self was entitled to a verdict on that count. Indeed, as an unqualified practitioner, supposing my postulate correct, Mr. Beale was not entitled to bring an action at all, inasmuch as he had no locus standi. Being miqualified, he was not a medical practitioner, for, although a member of the College of Surgeons, yet as he practiced a branch of the profession for which he had not authority, he was decidedly out of the pale or protection of the law. The case, too, was a medical one, and required a medical man, not a mere surgeon, to treat. So far then the verdict was unjust and contrary to lawtwo positions not always consentaneous,

Another statement made by Mr. Self was, that Mr. Beale was a dissecting-room porter, averment was fully borne out by the plaintiff's own witnesses, Messrs. Merritt and Tyrrell, gentlemen attached to the school where Mr. Beale had been engaged; indeed the latter gentleman tells us, to

him was it owing that Beale was enabled to cast ON THE DECIDUA REFLEXA AND THE off his slough, and appear in Stepney as the practitioner of medicine and surgery. Thus far then, have the statements made by Mr. Self been fully

We come now to a more important charge, that of mila pracis—a statement requiring serious consideration. We shall take our evidence in this instance, also from the plaintiff's witnesses, and we must rely almost solely on the medical testimony. It appears, that Mrs. Neele labored under inflammation of the bowels, caused either by intussusception, or internal strangulation, for on that point the statements made are rather undecided, Mr. Farrer, a surgeon, who was called in by Mr. Beale to his assistance, distinctly stated, that if a greater number of leader had been applied, the decorised would have had a better chance. If the patient had not got better, he, Mr. Farrer, would have bled her till some degree of faintness was produced. To relieve the inflatomatory symptoms it appears Mr. Beale ordered only six leeches, and in this he was supported by the evidence tembered in court by Messrs. Tyrrell and Aston Key, who stated, that the application of 30 or 40 leaches would have endangered life. One of these genthemen made the remark, that when the blood was once abstracted, it could not be replaced, Withont stopping to comment on this absurd and ad captandum remark, that the blood could not be replaced, we would ask these surgeons if they would be content with applying six leeches to a case of abdominal inflamoration, following an operation for lithotomy or hernia? Or, whether they deem that transactic inflammation requires more energetic treatment than the idiopathic variety? We are well assured, that such milk and-water practice, would not be adopted by them in their own practice, and if so they have no right to come forward in a court of law, and defend it in another. As Mr. Farren conscientionsly remarked "if a greater number of leaches had been applied, the deceased would have had a better chance;" this consideration then, we believe Mr. Self was entitled to a verdict, or at the very utmost, a farthing damages only was required.

In spite of all this, in the teeth of the facts that Mr. Beale had entered as it were surreptitiously into the profession, of which he was for a long time an atterly unqualified member, and is still legally so,—that he had been, as was most truly alleged, a dissecting-room porter, and that his own witnesses showed he had not only neglected his patient, but had not treated her with the vigor and decision which he should have used, the jury returned a verdict for the plaintiff, with £100 damages; thus affirming the fact, now first admitted, and constituting a most dangerous precedent, that a man legally unqualified to practice, may sustain an action for remarks again a his professional character, and recover heavy damages In fact, he has been declared by this jury to be en titled to all the privileges hitherto accorded to qualified and certificated member of the profes-

There are other facts connected with this subject, to wloch, with your permission, I will advert on a future occasion.

Lam, Sir, Your obedient servant

[We have but one remark to append to this note. The uprice of Mr. Beale-nothing dishonourable being proved against him—is entirely to his credit. On the other points raised by our correspondent, our readers must be left to form their own opinions.—Ep.]

ADELAIDE GALLERY .- This useful institution is, during the Christmas season, more than usually attractive. Music given in perfection-Dissolving Views-a Colossal Burning Leas, weighing eight hundredweight-the Boceius Light-with the usual variety of scientific wonders, present a bill of fire which is drawing, we are happy to notice, "full houses." We cordially recommend it to the scientific curiosity of our readers.

DECIDI'AL CAVITY.

By R. LEE, M.D., 1.R.S.

On the 10th of March, 1822, a young woman, who was in the second month of pregnancy, poisoned herself with oxalic acid. The uterus had acquired double the size which it it usually exhibits in the mimpregnated state. It was five inches long, three and a half in the greatest lateral direction, and two inches in the antero posterior diameter. A longitudired incision was carried down the middle of the posterior surface, crossed by a transverse one parallel to the entry of the fallopian tubes. The thickness of the parietes of the iteras, though greater than in the unimpregnated state, were not proportionate to the general increase in the dimensions of the organ; they were four lines at the fundas, and six lines at the cervix, gradually increasing towards that part: the chief difference was observable in the already enlarged size of the aterine venous simises, decidnous membrane, which closely adhered to the inner surface of the uterus, was then laid open by two incisions parallel with the longitudinal and transverse incisions previously made in the parietes of the uterns. The cavity of the uterus being exposed, the ovma, about the size of a pullet's egg, came into view, and was observed to be situated towards the lower part of the uterus. It was lodged entirely in the cavity of the body of the uterns, and no part of it extended into the cervix. The part of the cavity to which it adhered was included beween two parallel lines, drawn, the one transversely across the interus at the distance of half an inch below the entry of the fallopian tubes, the other at two inches distance from the as time; consequently, the ovum was situated altogether below the entry of the fallopian tubes, and was mustached both at its upper and lower part, leaving a free space or canal between it and the as tinese, corresponding to the shape of the clongated cervix and a much larger eavity, which was the decidual cavity, between the upper part of the ovum and the fundus uteri. Intervening between the superior and unattached surface of the ovum and fundus uteri was a broad cavity, measuring three inches in the lateral, and one and a half in the antero-posterior diameter, and which appeared at first only a few lines in depth, but on further inspection was ascertained to be nearly two inches in depth. The upper concave surface of the cavity formed by the decidua lining the fundus ateri, or uterine decidna, was irregular, and dightly retienlated. The inferior convex surface formed by the decidua covering the villi of the charion, or decidua reflexa, was perfectly smooth, resembling comewhat the external scrous surface of the uterus. On examining this with a magnifier, numerous small elliptical openings were seen in every part of the membrane. Into this large cavity, between the decidua reflexa and the decidua vera, the fallopian tubes opened by palpable orifices; that on the left side, by which the ovem had cutered the uterns, being rather more than a line in a diameter; that in the right rather less. The cavity thus formed between the decidua lining the fundus uteri, and the dicidua covering the upper and mattached portion of the ovum, or decidua reflexa, was filled with a red-coloured serous fluid. The ovum was next laid open by an incision through the chorion parallel with the longitudinal incision of the nterns, and the amnion enclosing the embryo was brought into view. The placenta was situated principally over the cervix and posterior part of the interus, and the decidua, closely adhering to the placenta, passed across the upper part of the cervix nteri in the form of a thick reticular mem-The decidua was then observed to extend brane. upwards between the aterns and chorion, every where firmly connecting these together as high as the entrance of the fallopian tubes. From this point the decidnous membrane was spread out in two different directions—viz. over the upper convex and unattached surface of the ovum to form the nterine decidus. Between these membranes was the decidual eavity into which the fallopian tubes freely opened. If you examine this gravid uterns of two months, you will see the cherion and amnion enclosing the embryo, and umbilical cord,

and the placenta covered with its decidua, adhering all around to the upper part of the neck of the uterus. You will also see clearly that the decidual reflexa lies entirely above the villi of the chorion, on that side of the ovum where the placenta does not exist, and the ownn is not attached to the nterus. In all the diagrams from Dr. Hunter, Wagner, and all other anatomists, which you have seen, the placenta has invariably been represented as adhering to the fundus uteri, and the decidua reflexa has been situated near the cervix, and appearing as it mechanically depressed or pushed down before the chorion or ovum. But in this preparation it is obvious that the decidua reflexa could not have been pushed down before the ovum, because it lies above or covers the ovum-the ovum lies between the decidua reilexa and the cervix uteri-and as the ovum enlarged, the decidua reflex) must have been forced upward to the fundus uteri, which was lined with the decidua yera, instead of downward to the cervix. The decidual cavity is, you observe at the fundus uteri, above the ovum, and both tallopian tubes open into this cavity by palpable orinices. Instead of being covered with the uterine decidua, this membrane passes into them, and they are left completely pervious, so that no membrane existed which the ovum could mechanically push before it. I am not aware of the existence of any other specimen of the gravid uterns at so early a period, in which the placenta is adherent to the neck of the nterns, and the decidua reflexa is placed above the villi of the chorion, or that part of the avum which is not attached to the interus; but it is impossible to doubt that in all cases of placental presentation in the early mouths, the decidua reflexa completely invests the villi of the chorion, and that the decidual cavity is situated at the fundus of the uterus. statements of the anthors above alluded to, and the generally received opinions respecting the formation of the decidua reflexa were well founded, it would follow that in all cases the ovum would attach itself to the uterus by the placenta, either directly over the edges of the fallopian tubes. through which it had descended, or to its immediate vicinity and that the deciduous membrane would never be found interposed between the uterns and placenta as it invariably is. The facts which have now been adduced and will hereafter be stated demonstrate that the fallopian tubes are open in the early months of gestation, that the evum may attach itself by the placenta to the fundus body, or cervix uteri, and that the decidnous membrane forms neither a shut sac nor inorganic layer, prior or subsequent to the arival of the ovum in the cavity of the uterns. These circumstances are also strictly in accordance with the fact, that when the ovum can first be perceived, it lies loosely embedded in the soft flocculent, albuminous matter which, at this period, coats the inner surface of the uterns, and that this pulpy semifluid matter becomes gradually converted into those delicate organised membranous layers by which the attachment of the ovum to the uterus is so firmly secured, and the most important function of the ovum performed during the whole period of pregnancy. The albuduring the whole period of pregnancy. minous substance interposed between the uterus and chorion becomes the decidna uteri, or decidna vera, while the albuminous matter which envelopes the unattached hemisphere of the ovum becomes the decidua reflexa. To whatever part of the uterus the ovum adheres by the placenta, its relation to the decidnous membranes will be the same, the uterine decidua forming the connecting membrane between the ovum and uterus, and the deciduareflexa covering only that part of the chorion which hangs loose within the cavity of the uterns. Dr. William Hunter offered no explanation of the manner in which the decidua reflexa is formed, and Dr. Baillie, who completed his description of the gravid iterus and its contents, says, that the manner in which the decidua envelopes the evum has never yet been observed, and therefore can only be a subject of conjecture. The most probable supposition is, that the ovum passes from the ovarium into the cavity of the utcrus, while the coagulable lymph is pouring out by the arteries of the uterus, which is afterwards changed into decidua. "One can hardly imagine," he says,

brane which is already formed, and, thoughtender, yet capable of some degree of resistance .- Med. Ga:.

PENCILLINGS OF FOREIGN MEDICAL MEN.

(Prepared from German source, for the "Medical Times,")

DR. SAMUEL THOMAS VON SOEMMERING.-Honoured by the first men of his age, recognised as an anatomist and physiologist of the first rank, renowned as one of the most fertile authors of Germany, loved by every one who approached him-Soemmering deserves to be ranked amongst the greatest men of the present time. The day when he celebrated the fiftieth year of his doctorial dignity, was a festival day for the whole of Germany, proving that even our age is not ungrateful to real merit.

Scemmering, born 28th January, 1755, at Thorn, in Prussia, was the son of Dr. John Thomas, who lived at that place as a practitioner and city physician, and whom the young lad accompanied at an early age to post mortem examinations, and thence probably imbibed his ardent love for anatomy, which branch of science he soon seized with an earnest grasp, which did not relax until his death. Instructed at the College (Gymnasium) of his native town by superior teachers and professors, he acquired a very extensive range of knowledge, and became imbued with that real love of science, which is so splendidly exhibited in all his works, Thus prepared, he went to the University of Göttingen, where he enjoyed the instruction of Wriesberg and Baldinger, and also became one of the first pupils of Blumenbach, who then had just entered on his career as a junior professor, and was still destined (the Nestor of German Natural Philosophers) to outlive his young pupil. Here'not only with great promise, but even with great honour he concluded his academic career. It was not very long before, that Camper had complained to Albin. that there did not exist an accurate description of the connexion between the brain and the nerves Soemmering endeavoured to accomplish that, which two such great professors of anatomy had pronounced to be a desideratum, and with what skill he did it, his inaugural dissertation, which he defended on the 7th of April, 1778, at Gottingen, sufficiently proves. It is entitled—De basi encephali et originibus nervorum cranio egredentium. The fame of this work and its author soon spread over Europe, and when, subsequently, Vicq d' Azyr published his description and tables of the brain, he resolved to adorn his work with some of the figures of Soemmering, as it was impossible to find anything more perfect in their way. He early arquired that indispensable art for the anatomists, of figuring his discoveries truly and instructively to a high degree, and the three plates which accompany his work, are drawn by himself after nature.

Having obtained the heademic laurels in a manner most honourable, he undertook a journey to England; attended at Edinburgh the anatomical courses of Alexander Thomas; when he also devoted much time to preparations, especially to the injection of the lymphatic veins. At London he especially followed the lectures of John and William Hunter. Having thus profited during two years by the lessons of men, the most conspicuous for their researches and original ideas, he returned by way of Holland to Germany; and obtained, in 1799, the professorship of anatomy at the Collegium Carolinum of Hesse Cassell. During his passing through Holland, he stayed at Frannecker with P. Camper, who received him like a father-gave him quarters in his own house - and left him the free use of his collections and drawings. It is easy to imagine, what beneficial influence on the young mind the confidential intercourse of a man, equally conspicuous as an anatomist as well as a stateman, must have produced. The days passed away so usefully and charmingly, that their recollection was never erased from the memory of Soemmering.

Although the position which he occupied at Cassel was by no means adequate to his great talent, it till afforded him the opportunity of being able to devote hlmself entirely to his favourite. "that the oxum should make its way into a mem- studies. This period of his lite is to be considered affection."

as that where, with unrelaxed assiduity and great genius, he built up from all he had hitherto learned one great whole, and thus prepared all which he afterwards put into such masterly execution. On occasion of the installation of a new anatomical theatre, he drew public attention to the lymphatic

vessels then entirely neglected. In 1787, Soemmering was called to the newlyerected University of Mentz, and thus may be said to have stept on a stage worthy of him. Here he lived surrounded by men the most scientific; here his unceasing activity was acknowledged and hononred, and he found himself surrounded by disciples, who eagerly received his precepts, ready to propagate them over the world. This enviable position stimulated him to the publication of several important works. He enriched comparative anatomy by his treatise on the difference of the negro from the European, which he dedicated to his friend George Forster, the great traveller, with whom he had been intimate at Cassell. next work was on the brain and the spinal chord, in which he described the situation of those mysterious organs with an accuracy then unrivalled. But the main work, towards which all the endeayours of Soemmering were now converging, was one comprising the whole body of anatomical science, which, moreover, combining anatomy and physiology into one common centre, should propound all the doctrines on the structure of the human body. In this work (Vom Baue des menschlichen Korpers), he divided the general axioms from the especial facts and data, and thus became the founder of general anatomy. He therein communicated many new views and discoveries in the different departments of the science, Thus in osteology he stated interesting facts on the difference of hones in different nations, sexes, and ages, dilated on the use of the absorbent vessels in the formation of bones, and added an important inquiry on the teeth. In his "angiology we admire his classic description of the heart, and Soemmering was the first who stated that there are searcely any nerves reaching into its substance. in the chapter on the circulation, he states the agencies, which, besides the impulse of the heart, move the blood onwards, and his description of the lymphatic vessels is first rate. But the ne plus ultra of an anatomic description, is that of the brain and nerves. Five years after these volumes had appeared, he published his work on the intestines, in which he dilated on the use of the lungs in the formation of uniform animal heat, explains the formation of sound in speech, and gave a masterly description of the peritoneum and all its appendages. During the time that Seemmering was pursuing these peaceful occupations, the French revolution broke out, threatening to disturb the quiet he had hitherto enjoyed.

But the benign power, who had previously brought him amongst a circle of loving friends, promised him also a solace in this momentons catastrophe. Our stern professor led, in the year 1792, to the hymencal altar, Miss Margaretta Gramlius, the daughter of a rich merchant at Frankfort, a lady of mild temper, and most

promising qualities of mind. Fo be concluded in our next

DRS. DICKSON AND FORBES.

(To the Lilitor of the ' Medic J Times.')

Sir.-Will you do me the favour to allow me, through the medium of your pages, to administer a little wholesome eastigation to Dr. John Forbes, of the British and Foreign Medival Review notoriety? In the present January number of that periodical, Dr. Forbes pretends to review the second edition of my "Fallacies of the Faculty." The first quotation he makes from my volume, in his fifth page, is a misquotation—the first quotation in his second page is a misquotation-at the bottom of his third page is the following false insinuation ; -" Curved spine, which Stromeyer and a few other insignificant schoolmen have attributed to paralysis of certain sets of muscles, is also in the opinion of Dr. Dickson, a remittent Certainly at the commencement, it is a remittent affection, but not only do I distinctly state it to be of a paralytic nature, but I claim to myself the discovery of that fact, and if Dr. Forbes chooses to appeal to dates, I will prove to the world that Stromeyer and his other schoolmen have only followed in my wake.

As a specimen of the mis-quotations I have noticed in this review, take the following :in the original the sentence stands this-" Like every other remedial agent it (iodine) ents two ways-atomically uttracting or lessening volume and secretion in one case - atomieally repelling or increasing both in another, according to the electric state of the individual body for which it may be prescribed." In the mis-quotation "anatomically" is substituted in both instances for "atomically!" Dr. Forbes asks if this be not stark staring nonsense. I answer certainly; but it is his nonsense, not mine. Perhaps he will ascribe these and the other mis-quotations to the printer's devil: five mis quotations at least in a review of six pages! Such a course was worthy the plagiarist of Dr. Payne. Yet he, Dr. Forbes, has the impulence to tell his readers "We have done justice to his (Dr. Dickson's) doctrings, by giving them and the proofs in his own lan-guage!" He concludes his review by asking "has not Dr. Dickson made an ass of himself?" In return for which piece of politeness I ask you, Mr. Editor, if Dr. Forbes has not made a knave of himself? Dr. Forbes is a royal physician, so is Dr. Holland. Perhaps it is by way of revenge for my having defeated Dr. Holland's ingenious attempt to appropriate to himself my doctrines, that his friend and coadjutor, Dr. Forbes, now does his best, by an equally ingenious device, to stifle their truth. The world will doubtless cry " Areades ambo!"

I remain, Sir, Your most obed, servt.

J. Dickson.

Clarges Street, January 3, 1813.

ROUGH REPORTS FROM GUY'S.

TEMOUR.—Ann Hall, .Et. 20, was admitted into Gny's Hospital, under Mr. Aston Key, Nov. 29th, 1842. She is a strong, stont girl, dark hair, and ruddy complexion: her habits of life good, has lived in the country, - occasionally troubled with sick headache. When she was born, the tumour was about the size of a pea; since that time, it is become gradually larger, but did not increase in size very perceptibly till she had attained the age of 16: since which time it has been rapidly increasing. It is now the size of a large walnut, and ocessionally obstructs the vision, by falling, &c. Has had leeches applied, but no other means tried. A tumour about the size of a large walnut, situate over the external angular process of the frontal bone, beneath the orbicularis ninsels of the right side, extending inwards half across the superciliary ridge, and also somewhat outward on the temple. Encysted, soft and pappy, to the feel, -no pain upon presure. It contained some fluid matter, which was of a *cheesy* character. The tumour was removed by an incision made two inches in length, from the middle of the eyebrow to the outer part of the tumour. The whole was then turned out from the adjacent parts with scarcely any bleeding. Cold water dressing for 3 hours; after that time a piece of lint, dipped in In. Benz. Co. was laid over the part, (in which there were two very fine sutures,) and warm water dressing .- Dec, 2d.: The outer part suppurating, poultice was applied .- Dec. #d. : The sutures were removed, the whole having Street, Holborn, London.

adhered, with the exception of a small point at the outer part, which was suppurating,-Dec. 9: The whole has united, and scarcely any mark left.

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THE MEDICAL TIMES

A Journal of English and Foreign Medical Affairs

No. 178. Vol. VII.

LONDON, SATURDAY, JANUARY 11, 1843.

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COURSE OF LECTURES ON THE DIAG-NOSIS, PATHOLOGY AND TREATMENT OF DISEASES OF THE NERVOUS SYS-TEM,

By MARSHALL HALL, M.D., $\Gamma.R.S.,$ Fellow of the Royal College of Physicians, London, &c., &c.

(1 DCT URE IV., Delivered December 9, 1842.)

GENTLEMEN,-I have now to bring before you some remarks respecting Hydrocophalus, and then to go on to notice some convulsive diseases. I have often watched a case of hydrocephalus with the same kind of interest as I have watched the most delicate philosophical experiment; and so far is it from being true, that that which is physiological is not useful in actual practice, that I should say it is totally impossible to view a case of hydrocephalus. with the degree of interest which it ought always to excite, without being physiologists. You remember what I said in the former lecture; namely, that diseases of the head in children are to be divided into-those that are tuberculous in their character; those of the nature of the water-stroke, following scarlatina; and the hydrocephaloid discases, as I ventured to denominate that state of things that comes on in cases of exhaustion, and which we may assimilate to hydrocephaloid diseases arising from disordered states of the intestines. With regard to inflammation of the bronchi and hydrocephalus, I believe that one is to be compared to acute disease, and the other to insidious disease, and they must be described together, because their symptoms are so similar, that there is scarcely any difference between them; it only being, with regard to the first, the suddeness with which the symptoms come on; and if I were to make a distinction between them, it would involve a great deal of repetition.

Now, with regard to the causes of inflammation in the head, in children. You remember, in the last lecture, I adverted particularly to a fall or a Many a fall or a blow has happened to a child through the carelessness of its nurse, or any other cause, which are never made known to the friends or the parents, or to the medical practitioner. Well, but a blow is likely to induce a serious malady, and I believe it is almost invariably the case that there is violent vomiting, persistent vomiting; and I make this remark to call your attention once more to the important symptoms of vomiting. If you are called to attend a child, and the child is affected with vomiting, and you cannot subdue it by attention to the dief or the state of the bowels, you may suspect that there is inflammation, than which there cannot be a more important admonitory piece of advice.

Now with regard to the symptoms to be noticed in the case of an acute inflammation, or in the case

the individual cannot express by words; but there of vomiting, because the excitement of the cerebral is an expression of pain in the countenances of children which, if you are watchful and observant of it, you may learn to read it in their countenances. The child, you perceive, becomes irritable, ftetful, and is cross; and these are very important symptoms —for a child is never fretful without a reason: of course there may be many other causes of fretfulness, but very often fretfulness is the very first symptom of hydrocephalus. And why?-Because it is in children similar to the expression of pain of adults. There is another kind of Janguage written on the countenance, in which it is impossible for an observer to be mistaken. The child is still disturbed, and the eye of the child you see is contracted, particularly if it be taken to the light: for in the first stage of hydrocephalus there is more or less of abhorrence of light; the child is also disturbed by noises, and there is an abhorrence of noise. Very often you can prove the sense of touch, by passing your finger along the skin. In the first stage of hydrocephalus, you have these symptone, all arising from undue excitement of the brain. In the first stage of hydrocephalas, or inflammation within the head, you have this series of symptoms, all which arise from undue excitement in the centre of the cerebral system: -The child cannot sleep at night; it is in a state of half dosing during the day, and with this half dosing state-which is neither more nor less than a dislike to be disturbed -with these symptoms arising from undue excitement, there is another symptom. I have been hitherto speaking of those symptoms that relate to the cerebral system, but the next class are those that relate to the true spinal.

What are the symptoms relating to the true pinal system? I have already alluded to the subject of vomiting, but there are symptoms connected with the true spinal system whenever you have paroxysms of vomiting, which you may suppose to arise from some inflammatory or tuberenlous disease going on, and you may alway; inforthat there is tuberculous inflammation going on. There are other 'ymptoms: for instance -we have the contracted pupil. I need hardly remind you of what you often see when a child is exposed suddenly to a glare of light. There is another symptom which you cannot have failed to observe, namely, stratismus. The child does not see what it is apparently looking at; the object may be drawn backwards and forwards, and in an opposite direction, and still there is the state of strabisems; and the symptom I have watched very often, is that arising from some affection of the pathetic trochlear's muscle of the eye, emsing the rocking motion of the eye. All these are true spinal symptoms. I need hardly fell you, that the eye is an organ in which all the symptoms are true spinal symptoms. Any organ of the body may be affeeted in the same numbers for instance-nothing is so familiar as to see the toe drawn into the sole of the foot, and the foot entirely drawn back by the contraction of the gastroenemi muscles All these symptoms are connected with the true minal system.

Then, in the first stage of hydrocephalus what have we? Undue excitement of the cerebral system, and undue evoltement of the spinal system. By the live, with record to the symptom of vomiting, it is very often mentioned as one of the first symptoms of hydrocephalus. Now this statement i both true and false. In the first place it is true, because one of the first symptoms I have met with in hydrocephalus has been an attack of comiting; but in other cases of hydrocephellus there have been other symptom, that have not been observed. Voniting cannot fail to be observed. The child is realless and irratally from want of kep; all this may pass unob erved, it is ascribed to the stomach and fretfulness. But it should be borne in mind system precedes the excitement of the true spinal system. It may be said that the first stage of hydrocophalus is denoted by undue excitement of the cerebral system, and unline excitement of the true spinal system. 'The disease varies. Where the inflammation is more acute the disease is inberealons affection within the eranium, and where it is an insidious and slowly formed disease there is a total change in the phenomena from over excitement to make excitement-restlessness and wakefulness become stupor and coma; sometimes the symptoms are spasmodic, and very often there is paralysis.

What then are the symptoms which characterise the second tage of hydrocephalus? You have only to run over in your own mind the rule I have I fid down, and you have then a sort of mnemonic. which, if you bear it in mind, will always enable you to go over every symptom, and consider what are the changes. For instance, the expression of pain; there is now a total vacancy of countenance, there was a deticioney of sleep, with a restlessness at night, and now there is e and or suppor, night and day. There was intelerance of light - now there is blindness; there was intolerance of hearing-now there is deafuss. The child is in a state of undue excitement or inexcitability, and all the senses are benumbed. This state of come obscures even other pains; for I have seen repeatedly in the countenance of an infant just such a contraction of the features as denotes the coming on of this state when all other pains have subsided, and when the child i in this state, pain is scarcely felt, and is never expressed in the natural way, so us to give the idea that there was any pain. There is an auter insensibility, or beginned A state of the senses: simpor, or coars, and fretfulness all take place.

Be ides these symptoms that may be said to be from madue excit ment of the cerebral system, there are other symptoms connected with the true spinal system; for it is in this stage of the disease that you have, more than in any other, the phenomena connected with the true spinal system. Now the pupil of the eye is dilated. There are two stages of the gaping eye. In one stage, if you take a feather and passit over the eye-lash it closes: in the second stage, it does not close. You see, then, that in the first part of the second stage, the eyelid may be still closed if you touch the evelash; but, that in the first or third stage, the grping eye is not closed when you touch the cyclash, the pupil being permanently dilated; but still, if you approach the light the pupil is contractile, and the cyclid will also close. Put, when the cyclid no longer closes and you touch the cyclash, you will see that at that moment, the pupil ceases to be contractile, if you bring the light near it: the eye still gapes. In regard to all the true spinal symptoms they all also remain. The strabismus is tenfold, and there is contraction

One remark I have to make, and that is this:--In hydrocephalic you do not have paralysis, but in inflammation you have it very often, and the reason is this, that in inflammation you have suffusion into the substance of the brain, and the paralysis occurs opposite to the side affected. whereas in hydrocephalus you have only a dilated state of the ventriele pressing on the brain generally, and which does not in general produce paralysis, though it does produce spasmodic actions. You recollect a case of pressure on the modully oblanguta which produced convolvious, and there is a case related by Dr. Abererombie in which it produced sparmodic action. There is a ease I did not mention, a case that completer the in the case of an acute inflammation, or in the case of a slower disease; the tuberculous hydrocephalus.

The very first symptom of all is a pain, which that there symptoms precede an attack.

on the fontanelle invariably preduced a coate of

Paralysis arises from injury. In a case I have lately attended, with my friend Mr. Barbard, the child was thrown down by a barse, and his boad fell against the child was thrown down by a barse, and his head fell against the curbstone, and from that time there were the regular symptoms of inflammation of the brain, there was vomiting, and also paralysis on one side of the body. I concluded there was not mere inflammation, as hydrocephalus hemisphere of the brain.

Then we have first the symptoms attached to the cerebral system, and to the true spinal system. these symptoms being over excitement; in the second state we have the symptoms of the cerebral system and the true spinal, there being over exeitement. The last stage of all is that in which the patient may be said to be in the sinking state, you observe here that not only the erebral and the spinal systems, but the ganglionis system is in fault. How do I account for that? I will tell you what I have observed, and you will judge from the character of the observations. If the child could not close the bronchial tubes, there was a considerable quantity of matter difficult over a considerable part of the hune; therefore the pragress of absorption was not properly halonced, and as the secretions are under the induction of the ganglionic system, I chorefore concluded that the ganglionic system was involved.

Another state takes place, a state ari ing from distension of the intestines. Why do I refer to the ganglierie system? Simply on this account:
—the secretion is probably under the indexes of that system, which guides ee which inflaen es the whole of the secretions; therefore when there is a superabundance of secretion, like the to which I have referred, I conclude in acts of from the derangement of the gam bodie -vst at. I give this reason as the most probable, and it is leggle interesting to observe fleat, who seas in the first stage of influential two pure are involved, in the last stage, not only the elebral and true spland systems, but the conglicate system is involved. With these views in our mind, it is impossible for us to watch a case of infl accuration in the cratama. or hydrocephalm, with sat do sainty the nature of

the disease. I must now say a few words possecting the morbid anatomy in the case of indomination from a fall, or from a blow, or any other caute. In these cases you have the usual plan ment of information from these cases you have the usual plan ment of information. flammation; chas on into the membranes, in the namination; thus on into the memoranes in the cavities, or the suche of this brain, and at the base of the crimin a. It is vire likely that efficient will account for some of the phenomena, though they may be accounted for by pressure, or it may be from the discretion of the ventricles, and so, from the general nature on produced by the pressure on the best of the brain, however that may be, effusion is the common of the rear and survey in the survey was the number of the rear all the rear and in cases in which the corollard system is rear all. in cases in which the case of the case all liquid effa-you have more or less of the case all liquid effa-sion. I need has lly tell you think the case in all acute case of sumition. They sold to a coordinate of suffusion in which there we said that purely Sufficient accounts for desperative, and salet parally some counts for desperative, and some for desperative, and some force elements, that where sufficient after substance of the brain, it especially will affect our part more than the other.

la a cale of true Ly been lishes, these are the appearances: in the fir uplace, chinden of the verticles, and I should say there was a lower quantity of fluid than in a case of indamnation. then effusion both on the currice and at the base of the brain; then there is another very interesting point, for if you look at the membranes very necurately, and a pecially at the bije of the brain, Dr. ——, formerly of Paris, and who is, I thind, in a in the profit to the pointed out what he called granulations, which he repeatedly perceived most under the arachnoid parameter of the attack. yon may see what was first pointed out by Dr. ____, formerly of Paris, and who is, I think, in Demerara now: I am not quite sure. He he repeatedly perecised most under the arachnoid warded off the attack.

spasmodic action. This is important tire an answer you find these spots on the arachmoid ber, because a child should never be laid in that membrane, you may be almost sure, if you look for, because a child should never be laid in that Whenever you find these spots on the arachnoid will find tube reulous hydrocephalus; and from the time Dr. - found trae tuberenious hydrocephahis, he never met with a single instance in which he did not find these spots in the lungs. This shows the nature of the affection, and leads us to modify our prognesis. If you are called to a second case in the same family, if the disease comes on in the same manner, you may be sure i, he case will terminate fatally if it is like the came on so rapidly, and the respirations were to be ease will terminate fatally, if it is like the irregular, because there was paralysis. On the set. If you look into the other organs, you examination being made after death there was a lift of the following made after death there was found a considerable suffasion in the opposite of the horizontal suffasion in the opposi ri glands e pecially. I only mention this circuit istance to show that the event confirms our ides of the true character of hydrocephalustube renious hydrocephalu.

A few words respecting the treatment: I am myself disposed to treat every ease as if there were full imlanmation. I need not tell you, that if I had a case to treat in which there had been inflammat ion, I should act very differently, because there would have arisen the inherculous disease in the lungs and the system. In treating a case of h drocephalus I would recommend the a case of a mose plant - a morning, living in the free use of co. I water in the morning, living in the open air, gen; "al tonic", and pursuing altogether a mild plan, as the best preventative. When the symptoms come on, nothing can prevent them to much as to sub dre the inflammatory action. the inflammation however, is in idious, I should, the inflammation, however, is incidious, I should, in the very first Lustant, have the patient upright, and produce an impression, one for all, on the system. I would of in the jurality voin, then a voin in the arm, then oup or apply beech, a until I saw a little pallid state of the contenance. The reason for placin & the patient in the upright state is, that you can in vasure the extent to which you

can go in drawing blood. Helieve children bear the less of blood we'll once; I do not think they bear it a second time. I am always di appointel when a patient has been bled once, because I device, in that e.s., purve the energic plan I have in that also, purrue the chere are profit have described to your other. Ver. I do not be sittle to adopt that here are. I disably you do not so beyond that which is said and you do not full short of that which is safe by identify this measure. If the patient is add the and strong, you may take more block, and if there is acute discuse, or severe inflammation, you may take more idead. Without some guids of this kind it is note the without some gains of this feat it is rose gla-work. The question comes after taking the blo of how much have you iden? In the first place you have taken the proper quantity of blood if you find the quantity taken confirms the diagnosis. If you the quantum town norments the pertient then pullid, find in a very few mountents the pertient then pullid, you may be sure the case is not one of influencathat, or that it is of a character that will not bear the bleeding any farsh r. It you have taken a large quantity you may be sure the case. In-The next thing is to apply fomentation to the head; let the head be function, and then you may

Legative and open.

QUESTYF IN ASTIDIA, by B. R. Hoosin, Esq., United States - The author asserts that quicine, administered in duses of from two to e cht grane, repeated in an hour, if relief does not fellow, has cared every case of asthma in which he has tried it. He was induced to try it in asthma, in consequence of its known efficacy in all puroxysmal and conjective cises s. He also alleges that in the "forming stage" of en up, in the

membrane, just under the base of the brain, PRACTICAL OBSERVATIONS ON THE NA-TURE, PECULIARITIES, AND TREAT-MENT, OF SOME OF THE MOST PRE-VALENT DISEASES, &c. CONNECTED WITH THE POPULATION OF NORTH CHESHIRE, AND SOUTH LANCASHIRE, EMPLOYED IN COTTON FACTORIES.

B) Cherles Class Member of the Royal College of Plassians Lead-don, Colors, Surgeons, Education, and Lecture, on Medica Juniphology, and Visheyl Police, Manchetter.

CHAPTER II. FROM THE COMPLETION OF THE SE-COMD, TO THE FOURTEENTH, OR DIFFERNTH YEAR.

From the second to the fifteenth year, is an important epoch in the life of a factory operative; as all who have the physical ability, are compelled to earn their own subsistence, even at that early perisal of life, when it must be admitted (medically) they are far from being properly fitted for such an capleyment, in a confined, and artificially heated same sphere. Before the protection afforded by the Factories Regulation Act, children were forced into employment at much carlier ages than at present : even the protection now afforded, is neither sufficient, nor is it appreciated by the operatives, to the full extent of its worth; which is evident, from the single fact, that every means are tried by parents to deceive the inspectors, and force children into employment, before the area specified by the act, by giving the most false and positive assurances as to age, &c. From the minth to the thirtcenth year, government protects children from more than eight hours employment, per dieta; and from the th recenth, to the eighteenth, they are protected from more them racke hours labour, per diem. 1 you I the age, legislative enactment does not interiere. Without entering into the consideration of the more equitable ystem of controlling the moving power, to avoid the deceptions practised on the plan of age of the individual, it must be the plan of age of the introduction of the ten years are but little fitted for such extraordinary exertions, and it is lamoutable that neh should be required of them, the consequences of which are but too apparent on the community in these localities. It became a matter of erron, importance to regulate their being employed, by strictly testing the age; and as haptismal regist rs to re not always to be had, and in many cases were procured, dil not answer as a test of age, as many were months, and not a few, several years of age, before baptismal rites were performed, other means had to be resorted to, anonest which made al men were directed to examine, and give their opinion in recerence to age, from the development of the constitutional powers, tested by general appearances. A-1 had been even ively engaged in putting the Factories Regulation Act into operation on it: first application under the chief inspector, R Rickards, Esq., I directed the attention of the inspectors. particularly, to the fact that the chief reliance as to age, should be placed on the progressive development of the Denies Incisores and Canina, a put the system under the inflastice of merousy as circumstance, to which I had paid particular arput the system under the fatherine of increasy as small as possible. I holive immediately there has bleedled to off at the system decidedly. I do not have that anything first ream he done, except that the child has the following distributions, and the bonds water, or something of that our, and the bonds have for each time. tention, and had to ted in so many instances, that I could with ease tell to a very tride, the age of the child, without pare atal evidence, and frequently so correctly as to a cash the parties interested. In conseque we of the endden death of Inspector Richards, the suggestions were not followed up at the time, though it was the inten-tion of that genth man, had be lived a little longer so to do. Some time after this, the governmen directed Mr. Saunders to make inquiries into the matter, and report therein: this was done withou reference to myself, although I had be a practi cally applying the test for some time, and it was evident from the report, the information collecte by In spector Eickards and myself had facilitate the inquiry considerably. The subject was again neglected for some time in consequence of a nesuggestion of determining the age by the standar of height, by Leonard Horner, then chief inspetor, who had been at an immensity of trouble

it very frequently happened, that the younger (and consequently weaker constitutioned) child in a family by reason of its height, was forced into a laborious employment, whilst an older child in the same family, of shorter stature, but much stronger constitutional powers, was refused employment, and obliged to remain at home in idleness, eating the hard earned bread of the younger child's proenring. The standard of height very soon became notorious, as a fallacy; and an order in council abolished it entirely, excepting only as a corrobo-rative test to other evidence. The development of the teeth now assumed its proper place, and certainly is the best sumple test, and when combined with other testimony affords a conclusion not easily contradicted; and certainly where deception is practised inteded to be, it is the best remedy at command: but such is the determination of the operative class, to deceive in regard to their children, that it will always be difficult to come to conclusions strictly true,

The appearance of children at the ages, from

two to lifteen, in these districts is miserably bad;

sallow in complexion, lean, even emaciated, in-kneed, and of precocious intellect, all of which are symptomatic of constitutional debility. There is a marked contrast between these children, and those of the coal miners in the same locality; the latter displaying considerably more physical power, and it has often been remarked, when playing together, that the little miners are a match for double their number of factory children, in feats of strength. Much has been said and written on the proceedity of factory children, and, to a certain extent, it must be admitted as correct; the very congregation of numbers, and the general mixture of adults and children, tends to that end; but when some anthors insist on early menstruation as a natural consequence of factory employment it'is, in my opinion, going too far. I think, with Mr. Roberton of Manchester, who read a paper before the British Association, at its last meeting in Manchester, that menstruation is more an affair of constitution than of climate or employment. I do not mean to deny but that there are very many instances of early menstruction in the factory children, as I have witnessed myself many such cases. I may mention one case of a three months abortion at the age of thirteen years and two months; and another who was a wife, and mother of a living child, when she was two months short of fourteen years of age: still this is by no means general; indeed, I think cases of long deferred menstruation are equally prevalent in this class of society. It can scarcely be otherwise when it is considered that although confined in an artificially heated atmosphere for a considerable portion of their time, in consequence of which they are thinly clothed (arising, perhaps, as much from poverty as otherwise), yet they are frequently, and without any additional protection, exposed at meal times to a generally cold and moist atmosphere without: confortless homes, thin bodding, and mwholesome low priced indigestible food. One of the most formidable appearances at the age at present under consideration, is that of scrofula, not unfrequently combined with, and in many cases the forerunner of, consumption; indeed, there appears a strong connecting link between these diseases; and though consumption's greatest ravages are after this period of life, yet it is frequently seen in the early years of childhood, and its victims can frequently, it not in all cases, be traced to those who have previously been subject to attacks of scrofula. There are many other diseases very prevalent; the mere enumeration of some of the principal will convince the observer that their origin in the main, is caused by the constitutional debility so generally prevalent-such as Menorrhagia, Diarrhaa, Chorea, Prolapsus Ani, Vermes, Fevers, and Inflammatory Affections of the Bronchia, Substance of the Lungs, Pleura, and Abdominal Viscera. Some of the eruptive diseases are also very prevalant, such as the Porigo Favosa, Scald Head, Psora, since the introduction of gas into the manufactories, Opthalmia has been more prevalent, and from its repeated attacks, opacities of the Cornea are very common appearances at all ages, but most of them originate about this time of life. In the treatment

the exhibition of powerful tonics, such as the Solut, Arsenici, with bitter infusions, proving it to arise more from general debility than the irritation of worms, &c. Some cautions are requisite in practising the antiphogistic treatment in Inflammutory diseases; fevers, &c., lest the depletion be carried too far and the patient lost by unconquerable debility, which often comes on so rapidly that the patient is gone before the practitioner has time to look about him. The frequency of Bronchitis, Semlet Fever, Mumps, and similar diseases sufficiently tells the cold moist atmosphere of the neighbourhood to which they are more than usually susceptible, in consequence of the excessive perspiration carried on during the hours of employment, and their want of clothing when not employed. Diarrhora is often followed by obstinate Prolapsus Ani; and in the autumn, cases of the fruit-cholera are very abundant, some of them very difficult of management, and not unfrequently aftended by fatal results. Strabismus is also a common occurrence amongst this class of children, which may often be traced to the attacks of convulsions from teething or acidities in earlier infancy. Such is the brief sketch of some of the principal features of diseases, their eauses, consequences, and treatment during this period of life. Children so sitnated require more legislative protection than they at present enjoy, but the great matter is to learn to take care of themselves, to avoid those practices which are inimical to their health and comfort, and adopt such as are really advantageous; but this, neither pursuasion, nor legislative enactments can accomplish, until their education is more cared for, when they will be enabled to see things in the light of common sense. In the next chapter I shall consider this subject in reference to that period of life, from the afficenth to the twenty or twenty-first year, a short space of human life, but no less liable to disease, in some of its worst forms than the periods preceding.

EXPLANABLE PRODUCTIONS SERVICE OF THE SERVICE OF TH COURSE OF LECTURES ON THE THEORY AND PRACTICE OF MEDICINE.

C. J. B. WHILLAMS, M.D., F.B.S., Professor of the Practice (Medicaes, and of Clinical Medicine, at University College,

GENTLEMEN, -The next antiphlogistic remedy to be noticed is mercury. It was first introduced as an anti-inflammatory agent, by Dr. Hamilton. He gave it in doses of four grains, after venesection, in conjunction with a quarter of a grain of opium, also with tartar emetic and camphor. The preparation of mercury that he employed was calomel. It is generally desirable to clear out the alimentary passages by a large dose of calomel (five to ten grains) before giving it in smaller quantities with opium to affect the system. If these remedies were not productive of decided relief in twentyfour hours, Dr. Hamilton was accustomed to repeat the venesection. Calomel is now frequently administered much more freely than formerly, and especially in tropical climates. Doses of ten to forty grains are not very uncommon. The modus operandi of mercury has been much disputed, and is not at all satisfactorily understood. Dr. Farre supposed that it excited an crythematic inflammation in the system, differing from the inflammation previously determined, which is of the phlegmonous or adhesive character, having a tendency to produce effusions. He tried it first in a case of iritis, and found that absorption of the lymph thrown out was undoubtedly promoted. Mercury is often beneficial in causing the absorption of the callons margins of syphilitic sores. In other kinds of ulcers its administration is generally injurious.-Nevertheless, wounds will often heal during the presence of salivation. Mercury is especially useful in peritonitis, and in all cases where the buffy eoat is most abundant. It increases greatly the lymphatic and intestinal secretions, and of Chorea, the best success has always followed may be regarded as acting exclusively upon know, the effect of heat is stimulation. On the

the capillary vessels. There is often a discharge of greenish matter from the intestines before salivation, and the inflammation becomes diminished. Dr. Armstrong imagined that the chief benefit arising in inflammation from calomel and opium, was chiefly, if not entirely, due to the latter ingredient, viz. the opium. In some cases there can be no question that the opium is essential, and acts a much more important part than merely preventing the removal of the mercury from the bowels. The proportion of opium should be augmented when the nervous irritation is found to be predominant over the vascular excitement; also in cases where inflammation has proceeded to results attended with severe pain, and where it is important to produce as much quietness as possible; thus in perforation of the pleura or peritoneum, large doses of opium may be advantageously administered. It is in cases where the blood is altered, and the tendency to fibrinous effusions becomes considerable, that a large quantity of mercury is especially indicated; hence it is peculiarly adapted to the later stages of inflammation, and is less suitable at the very commencement of the disease. At the onset we have already noticed that antimony is the most efficient remedy. When fever runs high, as it does frequently at the beginning of an inflammatory attack, it is with difficulty that merenry can be brought to act upon the system, and this fact shows clearly the impropriety and inutility of trusting to it, without the assistance of previous depletion. There is no evidence to prove that mercury has any direct sedative influence upon the heart - it may certainly produce a sedative effect indirectly, viz., by increasing the secretions from the alimentary canal. When a very speedy effect is desired upon the whole system, inunction must be employed as well as the internal administra-When the gums become affected, the local inflammation is generally relieved, although the accompanying fever may still continue without any important abatement. Another medicine that has been much extolled by some as an antiphlogistic remedy is Digitalis, This you will find an exceedingly uncertain agent, and one upon which not the slightest reliance can be placed. Colchicum has also been tried in inflammations and in those of a gonty or rheumatic character it has been productive of strikingly beneficial results. It increases the secretion of the liver and kidneys, and aids in the purification of the blood. The sedative effect of colchicum is rather uncertain. Neutral salines may be given with advantage in cases of inflammation. They seem to have a refrigerant influence, and may act as attenuants of the blood. Salines ought to diminish its spissitude considerably. Some of the Italian physicians treat pneumonia almost exclusively with the carbonate of potass: it is suppased to render the circulating fluid less viscid, and the general secretions more free. We regard these medicines as mere subsidiary aids, and should never think of trusting to any of them alone. A very important item in the treatment of inflammatian is the Regimen. It must be evident that all circumstances tending to cause excitement of the heart's action, must be most carefully avoided and removed. Hence, a quiet room should be chosen, and the horizontal posture in bed maintained. All noise must be as far as possible prevented, and only little light should be admitted, because the senses are so many inlets, through which excitement may be communicated to the brain, and by it may he converted to the heart. The temperature of the air and of the patient must be cantiously regarded. If much heat is allowed, an increase of the fever will be induced, because, as you

other hand, cold is exceedingly injurious by checking the external secretions, and causing serious internal congestions. It is clear, therefore, that a continuance of either extreme must be avoided, and a moderate temperature maintained. The old system of smothering up patients in blankets, and unventilated apartments for the cure of inflammations indiscriminately cannot be too strongly deprecated. From what I formerly stated to you about the arrest of the gastrie secretion, during the existence of inflammatory action, you will at once see the great necessity for prohibiting the supply of solid food. There are two reasons for this prohibition, viz., that digestion cannot proceed, and, secondly, that if it could, the nourishment acquired would be decidedly hurtful by angmenting the inflammation. The only diet required, is just so much as will keep the stomach from inflaming, as it were, itself, and for this purpose dilaent, are by far the hest.

We have now alluded to the principal agents that are of use in combatting inflammatory disease, viz., blood letting (general and local), antimony, opinm, and mercury, all of which may be assisted by salines, diluents, and the anti-phlogistic regimen. We must proceed to make a few observations upon the treatment of the results of inflammation. It will be apparent at the outset that these are not to be removed by any one class of medieines. The first of these results that we considered was offusion. The remedies for this have been called evaruants, such facious, and discutients. The first of these terms would apply to any measures by which a direct removal of the matters effused could be accom-Idished. The second term, surhefacients, would seem to be only nominal, inasmuch as we do not know of any substances that act upon the absorbents simply. Discutients are stimulant applications for dispersing effusions, such as solutions of ammonia, vinegar, sa't water, and the like. Priction with stimulating liniments, is also of much service in some cases. It acts by increasing the circulation through the veins, and should therefore always he performed in a direction towards the heart, After effusion has occurred, the inflammatory action becomes diminished, but may still remain in a low degree, so that blisters and other local applications may be required. The best and most effectual remedy for the removal of effusions, is, as we before noticed, recruen-It appears to have some specific influence upon the economy whereby the absorption of foreign matters is determined. The efficacy of mer-eury for this purpose is well seen in cases of iritis, in which lymph is poured out and resists all attempts made for its removal, until the system is brought under the specific influence of mercurial preparations. The beneficial of mercurial preparations. operation of blood letting and antinony in the ulterior stages of inflammation, is not to be compared with that of incremry. When the chief result of indamporation is consection, an timony may be as a oful as mercury. Is anotimes congestions are better treated by toolethan by either. The same may be said of fluxes after all influmnation has coved. In thises of mucous membranes, torpentines and balsams are very efficacious—they appear to have a specific influence over these cases. Liquid effusions into sacs noist be treated with blisters, also with io lide of pota-sium, and diureties and purgetives. When there are slight remains of inflammations, ied ne is very effected. If after affision has taken place. the inflammation bee thes coraci ledibe and mercury noist be given. Here also consterrestants come in with creat advantage. If the chronic inflummation is aperfairl, blisters are

best. If the inflammation is deeper or more severe, the supporative counter-irritants may be employed. Sometimes there is searcely any ellusion discoverable, but merely a relic of inflammatory action, and in such cases simple rubefacients are often very useful. All these remedies must be employed before disorganization has taken place, or organic disease supervened.

When suppuration is established it lowers the vital powers. If the vascular action is strong, inflammation may continue, especially if the pus is pent up, and cannot escape. this case incisions may be made, and hot poultices applied: or else, if the pus cannot be removed, the system unist he supported, especially if any symptoms of depression are present. When suppuration is limited, there may still remain enough slight inflammation to indicate the further employment of anti-phlogistic measures. The symptoms that are produced by the diffusion of pus through the system, have already been enumerated on a former occasion, viz. hiccup, subsultus tendinum, cold sweats, and ere long, death best palliatives that can be given are, back and ammonia, wine, camphor, opium. Where the system is weakened by the discharge of purulent fluid, generous dict and tonics must be

freely administered.

Gangrene must be treated much in a similar manner. If it causes depression, the system must be supported. We must try to excite the parts to inflammation, so as to throw off the dead matters. Sometimes, however, gangrone is attended with an amount of inflammation that becomes dangerous, and the excitement of the system may even require considerable depletion. The pernicious influence of the gangrene must be obviated by antisopties gaugrene affecting the throat, for example, a gargle may be used, consisting of from iij to vi drachms, of the solution of chlorinated lime, and vj to viij ounces of water. The chloride of lime has been of service in gangrene of the longs. Netwo-murialic acid is still better. Creisote is also good. Various inhalations are useful where the throat is affected. Another result of inflammation is ulceration. This is more common in the alimentary canal than in other parts. Such ulcerations must not be treated merely anti-phogistically, but we must endeavour to excite a new and healthy action in the affected parts. Merenry may be given as an alterative in small doses; also, nitrate of silver, acetate of lead, sulphate of copper, or sulpliate of zinc, or astringent decoctions, as decoction of logwood. The same substances may be of use also in ulceration affecting the Inyny, &c.

The treatment of crysipelatous inflammation varies with its peculiar character. Sometimes erysipelas assumes the typhoid form, and requires the employment of powerful stimulants. In other instances, again, it is decidedly inflammatory, and demands the most active depletion, together with antimony, salines, &c. As a neueral rule, cry ipela is inflammatory at the commencement of the attack, but requires the use of tonic remedies towards its termination. Velpean states that crysip-lasconsists essentially of imbananation of the capillary rees. One of the dangers enemeted with it is its special tendency to affect the membranes of the loain.

Llacondie inclinanation generally requires pretty tree blood letting, and also the estatiotion of what may be termed $s_i = \beta_i$ medicines such as coloher $a_i \in \mathbb{R}$. The combination of eadonel, autimony and opinene is allo productive of a pecial heradit.

by the formation on a inucous surface of a pellicle of lymph, which often emits a fetid odour. It is usually of a low type, and is most successfully treated by stimulants and alteratives applied to the part. Mild mercurials and salines may also be given. Bark is frequently indicated.

With the treatment and nature of syphilitic inflammation and its results, we have nothing

to do here.

The next subject for our brief consideration is chronic inflammation, which, by continuing in a low form for a length of time, as its name implies, is frequently followed by the most serious and uncontrollable consequences It produces gradual alterations in the nutritive functions, and thus also alterations in the structure of organs. The vessels are excited and throw out too great a quantity of solid matter. Hence may arise hypertrophy, induration, stricture, dilation, ulceration, &c. The effects usually predominate in one elementary tissue more than in another, and the results in the different tissues present many varieties of alteration Thus when a tube consisting of several tissues is inflamed, it generally happens that the most vascular constituent is the especial seat of the mischief; for example, in inflammation of the urethra, we find that the submineous membrane has undergone the proeess of thickening. There is a difference in the susceptibility of tissues to inflammation, thus, serous tissue is very easily affected, whereas, fibrous tissue is much less liable to the inflammatory process. Both, however, become affected if the inflammation is chronic. The deposits arising from the inflammation may vary from simple lymph to complete bone. When the liver is inflamed, an albuminous matter is deposited of lower vitality than that which usually nourishes the organ; it becomes contracted, and as a consequence, the entire organ shrinks. The product encroaches upon the vessels of the organ, and, therefore, its proper function becomes impaired

Chronic inflammation seems to accelerate the occurrence of ordinary changes. It makes cellular texture dense and fibrous-muscular structures become tendinous - fibrons tissues become cartilaginous, and the cartilaginous

become ossified.

Parenchymatons tissues generally undergo induration-Sometimes they become softened. In serous cavities, chronic inflammation may keep up the effusion to which the acute gave rise -but with this difference, that the chronic action causes a degradation in the character of the effused matter.

LECTURE XXL

GENTLEMEN,-We are now entering on that department, or division of our course, which treats of individual diseases, rendered special by their affectmg individual organs, or rendered so by their constituting such a group that they are constantly occarring together, more or less, with a constant relation to each other. And these in a great measure arise out of the general doctrines of pathology applied to individual organs, or, as it is sometimes instanced, individual functions connected with various parts of the body, constituting individual and pecial diseases. The first subject we shall begin upon will be the organs of respiration-the respiratory organs from the nostrils to the diaphragm, and we shall afterwards go, by a very matural connection, to the organ of circulation.

Now, preliminary to the consideration of individual creams, we have two generalities to consider and to notice respecting each group, - certain other matters with respect to the constitution of the organe, their functions, the manner in which they may be decaused, and consequently to the manner in which we may get at a knowledge of their symptoms, as they may tend to death or to other results

Now we already find with regard to general The diglith. To inflammation is characterised Discussis and Pathology, that signs may be either eliest.

On the one hand, particular signs proceed from derangement of the physical constitution of the organs, appealing directly to the senses. are other symptoms, again, connected with the vital properties of the different organs, and although they often appeal to our senses in an indirect way, it is through these vital parts.

We proceed to consider, in a general way, the manner in which both sets of these may become available in teaching us, the diseases of the chest. The chief peculiarity with regard to the chest is the manner in which its machinery is constituted and conducted. The chest is a machine adapted for the ingress and egress of air, and it is one admirably adapted for that purpose. But that adaptation belongs rather more to physiology and anatomy than to the particular department before us, which is to consider how that mechanism if deranged may present signs of disease. It is obvious that before it can cause signs of disease, it must act in a manner which is palpable, visible, or in some way ostensible to the senses. It is not every physical change which takes place, that can become a source of physical signs. We first of all consider, then, how we can render the disease manifest. We must examine the chest and its properties, se far as we can by sight and touch.

Now the constitution of the chest presents a given symmetry, certain symmetrical proportions on one side corresponding with the other, and these symmetrical proportions are exhibited not only in the stationary condition -what may be called the statical symmetry of the chest, or when the chest is comparatively at rest, or in the intermediate state between rest and motion, -- but likewise a symmetry in the motions of the chest, and in a correspondence between the motions of the two sides.

We consider the natural aspect, the form and the mesition of the chest, which may be called the statical examination of the cliest by sight and touch. By inspecting it straight, so as to view the two corresponding sides, the two are seen to correspond exactly with each other; the one half is a represcutative of the other half and if from an examination of the front we go to the back, we should find a correspondence between the two sides, one half a representative of the other half, a perfect correspondence between back and front.

There is another mode by which symmetry may be seen, i. e., looking down the cliest so that you may perceive a correspondence between the thick ness of the one side and the thickness of the other. And so you may examine the chests of patients in a similar way by looking over the shoulder, directing the patient to lay his head down, you perceive at once a correspondence between the two sides. This is a rough but an extremely useful way to obtain knowledge on the symmetry of the chest. It requires a certain amount of practice and a correct eye, to be precise in this mode of examination, but it is remarkable how soon after a little practice, accuracy is obtained, independently altogether of mensuration.

Now I shall have an opportunity of bringing before you, by way of illustration, a living model, by which a few of the particulars may be Illustrated. Umention, by way of precantion, in the first instance, that as symmetry is the great object, it is obvious that it is necessary to place the individual in a perfectly natural position, that the arms shall be in a corresponding position on both sides. and the body as creet as possible; if, in a sitting posture, taking care to preserve the erectness of the trunk. Sometimes patients are too weak to bear this; under these circumstances, the patient lying in bed, you may inspect the sides from above, and if the patient is lying down, it is important that you get into a position to see the symmetry of the two sides. You must sacrifice dignity to the ciremistances of the case and the desire of doing the patient good, and get on the bed and look down: you must move yourselves to suit your sight. The great object is to discover the existence or nonexistence of symmetry; therefore examine fairly. This symmetrical portion of two sides is very often extremely well seen from the foot of the bed.

Now, I have stated, that symmetry is the rule of the natural condition; there are, however, in of the outer organs, but the weight of the liver (and, in expiration, the opposite condition takes

general or particular. So it is with regard to the the natural condition, certain small exceptions to ymmetry, trifling, in some measure, but yet they ought to be noticed-not only because they are exceptions, but because they are likely to be exaggerated by disease. The exceptions are, that the right side is in a trifling degree larger than the left side; when we come to actual measurement, it becomes more particularly evident, but it is also sometimes obvious to the eye. It may be stated to be a general rule, that on examination the right side from the lower part measures from one-eighth. to half an inch more than the left; this is stated by Leibig, and considered by him a general rule. Dr. Stokes, who pointed out this incident, considers that the greater use of the right side causes it; that the right side is the strong side, and one that requires greater use and development. It is a matter of doubt whether this fact is not an effect rather than a cause, but it is a matter we cannot enter into at present. Dr. Stokes states, that in one of the instances in which the patient used his left hand as much as the right one, the left side acquired the predominance. There is not, however, enough of evidence to prove, that enlarged left sides follow invariably the increased use of the left hands. Doctor Willan, a very laborious Freuch physician, has made a great many researches in the comparative size of the chest, and its various inequalities, both natural and unnatural; and, amongt other things, he has found that a great extension of the muscles of the chest, instead of increasing the size of the chest, diminishes it. Those artizans who are engaged in active employment, requiring the use of their upper extremities more than the lower, (the arms particularly,) have, on the average, smaller chests than those whose occupation requires both extremities to be used equally. We have, indeed, always considered that this exercise and development of one side-the effect of a person using the right hand more than the left-would increase the size of the muscles; but we cannot see how it would increase the size of the chest itself, unless there is some other development to account for it. I have always taken another cause as the reason; and before I mention it, I will state that another slight deviation from symmetry is also observed in a great number of healthy cases. The number is not such as to creet it into a rule; but it may generally be found to be the case, that besides an unusual development of the lower part of the right side, -a predominant development of the right side, there is a greater development at the upper part of the left side than the right; and to confirm this, I may state that Doctor Willan, who has made careful observations on the same point, observes, that in very numerous instances where there is a trifling amount of disease, it must amount to a case of enlargement; and that a departure from the natural symmetry of the chest produced disease in the greater number of the instances he met with. Now this makes it entirely (instead of being connected with the muscular development or original confirmation) owing to a greater amount of pressure in a particular direction, by which amount of pressure certain parts were disposed to enlarge and other parts to contract. Now if we wish to find what those parts should be, I have no hesitation to refer you to the position of the liver in the lower parts of the chest. The chest is expanded, and the lungs obey that expansion; all sides of the chest and lungs move freely. The motions of respiration, inspiration, and expiration take place without any impediment; and expiration takes place with the same facility. But there is a greater amount of resistance in some parts than in others, there is such a heavy mass interfering, with the respiratory motions, it requires a greater power to move it than if less motion took place; consequently, you may conceive that where there is a ertain degree of resistance in the region of the liver to the descent of the diaphragm, in consequence of the weight of the liver, there will be a greater tendency to increase the bulge be a greater tenoring to instance in Sugar or expansion of the walls of the class in its immediate vicinity. This takes place in inspira-tion, but still more in expiration. In expiration, which is a mechanical act, arising from the clasticity of the organs, there is not only the elasticity

to contend with, -- and that takes place, on an average, in a third of the whole period of an individual's life, in a horizontal This seems but a little, but it is something that is going on constantly in this part more than in any other part of the chest; and it is quite sufficient to have the effect of causing a greater predominance of development on the lower part of that side. With regard to the upper part of the left side is there any proof that mechanical action has there a similar effect? There is the stomach distended with wind, which is more or less yielding, nevertheless, we find that Dr. Willan mentions, as showing changes of the chest, - arising from the resistance given by the distended stomach,-children subject to dyspepsy and flatulatory disease. Here the heart rises up—a solid bodypretty high to the chest, and though it does not apply to the lower lobe of the lung, may it not act in a similar degree with respect to the upper portion? The heart and appendages, and the other portions connected with it, rise pretty high to the left side, and it seems that a particular amount of resistance given there may cause a predominance of the upper part of the left side over the right. The other view connected with the working of the chest is important, inasmuch as the observation may lead us to a correct appreciation of the causes of these different phenomena, and their prominent

So far we have been considering the statical position of size in relation to the chest. The chest expands in a state of rest without relation to these motions. We now consider the motions of the chest as expanded by the rise and fall. Now the motions of the chest as to their size are symmetrical. They are symmetrical in all directions. Remember what the motions of the lungs are-where the motions of the chest begin. Although the chest is a moving machine, the chest itself is the organ of motion; we should consider the manner in which it moves, by considering the manner in which the lungs are calculated to expand best; and pathologically considered, in relation to size, we must consider that the lungs expand from their roots. From the roots, so called; these parts, from which bronchii subdivide, and from which the vesicular texture of the lungs expand like the roots of trees from a centre. We suppose the great bronchii go in, and subdivide in various manners through the We suppose the great brouchii go whole expansion. Well, then, the expansion of the lungs is upwards, outwards, downwards, and inwards. The expansion is over the chest in overy direction; and just so, of a similar kind ought the expansion of the chest to be. In making these observations, you will do well to use the sight and touch together, placing the patient immediately before you, and placing your fingers on the chest so that you are sure you are looking at two corresponding points; then desire the patient to take a deep breath, and watch it at various degrees, and then you will see the expansion taking place in a symmetrical manner. You will observe it rises not only upwards but outwards; and this is often to be observed by placing the other hand, so that not only do the fingers rise up and down a little, but the hand and fingers are litted outwardly. This may be observed if the patient has his clothes on; you put your hands round the chest, and you will perceive at once an uniform and general expansion, which, in some instances, will supersede the necessity of further examination, and likewise there is an expansion of the sides. The ribs are observed to rise as well as to expand outwardly-you will then come to the lower part of the abdomen. It swells outwards by the pressure of the diaphragm and the abdominal viscera. In the back you may perceive not only a general expansion, but the individual motions of the scapule, which may be looked upon as a metre —a mark, or index, of the motions of the chest. You will observe the different motions of the chest and the different motion of each scapulæ from the

Now we may, in different diseases, detect a difference in the expansion of the two sides-in the descent of the one scapulæ from the spine, to that of the other. The motions that arise take place in inspiration; and whilst we watch these motions place), whilst we are watching the falling, we may sometimes have the limits of a motion into the lower part of the chest, and thus discover what are the boundaries of the cho t. It may seem to be not a difficult thing to talk of the boundaries of the chest. The chest, inasmuch as it is composed ; of bone and abdomen, is hommed in with muscles. But, you must observe, that the abdominal viscera arein the chest, and it is very important to distin-, guish where the particular point of the chest corresponds with abdominal spinals only, or thoracic and abdominal spinals.

Now I have mentioned that sight and touch assist us in this, that by observing the motions of respiration in the lower part of the chest, we pererive a difference in the motions of those above the diaphragm and those below the diaphragm, and for this reason—the intercostal museles above the diaphragm are the seat of pressure from without as well as from within. When the cliest is expanded, a tendency to a vacuum is found, and if the air does not penetrate with great freedom into the lungs, that vacuum takes some time to go from the trachea into the lungs; and so, if it does not take place with great freedom at each time the diaphragm descends, there will be little concavities, as is found on laborious respiration. In a healthy person, you observe the intercostal spaces above the diaphragm, that correspond with the lungs in the cavity of the cliest, are concave at each respiratory effort, whereas those intercostal spaces below the diaphragm, - I do not mean actually below the attachments of the diaphragm, but below that level on which the thoracic viscerarest-those that are so, instead of being concave at each inspiratory effort, project outwards, and infact the whole chest seems to expand and project outwards independently of that; and whom inspiration is contracted, as in croup or any other case of that kind, the depression of the intercostal muscles connected with the chest is increased, whereas the external swelling and projection of all those parts below the diaphragm, corresponding with the abdominal muscles, is increased. The projection is increased in the abdominal muscles, and the opposite states exist in the chest. Some of the effects arising from this are rather interesting. These always take place peculiarly in young subjects, and their continual operation causes distortion of a particular kind. Shaw has pointed out, lately, some remarkable cases connected with that projection called *pidgeon chest*, or *chieken breast*—distortion, which in children shows a remarkable projection—a flatness of the chest, and a flatness of the sternin, and he, taking the explanation as before pointed out with regard to the intercostal muscles, ascribes it to a similarity of pressure of the inspiratory effort connected with an imperfect transmission of air through the trachea. In the cases I have already mentioned, where the air does not enter with great freedom, there will be a defective expansion of the diaphragm; and one of the great causes, perhaps the chief cause of respiration, is the weight of the lungs, which will effect the descent of the diaphragm, when the air does not enter freely, while atmospherical prossure will be exerted on the parts of the diaphragm and the ribs. If the air does not enter freely, the walls of the chest are This is what you see in chickenpressed in. breasted children; the lower part of the chest is narrowed, flattened, and depressed, the continued effect of which is to eause a projection of the stermin, and this is sometimes, exhibited, through the whole course of an individual's life.

The point before us now, more particularly, is the manner of tracing the limits of the chest. The pressure is all outwards, by the diaphraem pressing on the abdominal viscera, outwards and downwards, and causing a temporary depression of the intercestal spaces. This is an important sign to prove the existence of the limits of the chest, and likewise the opposition to the entry of air into the proper tubes. It is in connexion with this, arising out of this difference of pressure beproperly speaking, the pulmonary part of the chest, that yea may perceive the outline of the projec-tion; now there is a double one constantly produced. In indicating the actual contact of the | immebility of the walls on one side. Ossification

liver with the walls of the chest, it appears a may produce the same effect, as in spinal distorlittle above, to correspond with the upper part of the diaphragm, and upper portion of the liver, arising from the cutward pressure I before men-tioned. This seems to be the chief cause of natural projection of the chest, on the lower part of the right side.

Another fact, important to notice, in connexion with these motions is, that the ear is differently affected by the motions of respiration. Full inspiration causes the ribs to rise and to recede from the heart and the lungs, and expand between them. In the act of respiration the lungs are fully expanded, which is a healthy condition of a wellleveloped chest. This does not apply to narrow chests, or in disease where there is an adhesion. On the other band, in full respiration, the lungs rise upwards to the diaphragm, and expand the greater portion, and the heart comes in contact with the walls of the chest, as in the case of heart affection; where the agitation and beating of the heart is caused by the heart's connexion with the chest. It may be seen likewise in the amount of the lungs' expansion; the heart comes in contact with the fourth and fifth ribs, and a considerable portion of the stermuo. Healthy respiration is both disphrognatic and costellary, and is constituted by the descent of the diaphragm and the rising of the vibs; and all varieties arise from disease, in which one of these elements of respiration or the other is absent. Thus, for instance, diaphragmatic respiration-which takes place when something or other prevents the full motion of the ribs; when the ribs are prevented from moving freely, either by excessive pain, or by ossification of the cartilages; or by actual disease taking place in the lungs; then the respiration takes place interiorly and by descent of the diaphragm. In that case the breathing is diaphragmatic or abdominal; inasmuch as the motions are not seen, and the chest no longer rises upwards and outwards. There is a greater than usual ascent of the abdomen at each breath, Again, the opposite condition takes place in what is called thoracic, or costellary respiration, or high respiration. This takes place when the diaphragm is immercable; the diaphragm does not partake of the least movement. This may be from various causes—as when it is the seat of intense pain, or by a voluntary act it is kept motionless, in cases of pleurisy, and in case of execssive pain of the abdomen; the motion downwards may cause pain by a contraction on the abdominal muscles. In these cases the chest is moved with great activity, and under these circumstances the supplementary muscles, and the various muscles connected with the upper part of the chest, are called into increased activity; the chest moves with a greater apparent effort, and the abdomen is comparatively quiet, or it moves, or appears to move inwards; this moving inwards arising from an attempt of the abdominal muscles to contract the motion of the diaphragm. As an example of diaphragmatic respiration. I may mention a remarkable one, in which disease affects the nerves and the muscles above the diaphragm,-in case of fracture or injury of the lower animal vertebra, er a portion of the spinal marrow below the origin of the Phrenie nerve. The motion of the intercostal muscles may be suspended, and still respiration be carried on by the diaphragm supplied by the phrenic nerve, which has its action by its connexion with the nerves of the medulla oblongata.

We may mention these as cases of diseased respiration, which may be partial; the motions may be contellary on one side, and there may be disphragmatic respiration on the other; it may affect one side only. Another variety of diseased respirations is where there is a partial difference, compared with the symmetry of the motions; when ride moves more than the other, the parts riving unequally. Some parts rile more than others. One part may be quite mobile; this may take place from various enuses: it may take place from distortion of the chest, when the organs of tween the abdominal part of the chest, or, more the chest are distended. When the whole muchi-properly speaking, the pulmonum part of the chest, nery of the chest is disordered, the motions are much more free on one side than the other. Here we can only expect a partial respiration from the

What is more important to me is, where a partial respiration sometimes takes place from discuse within the chest, or the lungs itself, or from effusions into the thorax. For examplesuppose the upper lobe of the lungs to be consolidated by disease; instead of air suppose there is some solid matter-a tuberele-it is quite clear that the motions of that part could not be freely performed, and inasmuch as the motion of each external part represents the motion and expansion of the internal part-that motion would remain fixed; so that, comparing the motion of one with the motion of the other, you will perceive the disease, and presence of inflammatory consolidation or liquid effusion instead of air.

Sometimes there is something to decive you in the examination of the chest. Semetimes you may perceive a difference in the motion between the two sides, and yet the side most discused will appear to move most. This is a deception of sight. There will often be an increased effort to move the diseased side, and that increased effort will raise the shoulder and clavicle, so that if you place your hand on the ribs you will see the ribs remain fixed: and when you see a greater upward motion of the shoulder and the claviele on that side, and the ribs remain fixed, it is a more certain proof that there is disease, than if the shoulder and clavicle were less. It is the ribs that are the representatives of the chest, and they are to be watched by the expantion of the muscles.

I have mentioned different diseases; besides consolidation, tuberele in the lungs, effusion into the tema, or contracted adhesions, and obstructions of the brenchial tubes; and whenever the air cannot get into the chest to expand it, that portion must remain comparatively motionless. But there is another condition to be observed in this motion, suppose we observe that one part of the chest is more fixed than another. It is important to observe in what condition it is fixed; whether in a state of expansion, highly distended by a quantity of air; whether fixed in a state of collapse, in case of an insufficiency. Both cases are representative of disease. For example: suppose liquid effusion to eccupy the pleura instead of the lungs; this would not only displace the lungs with such force, that the sides will be distended, but the motion of the chest will be stopped—it will be quite still, as if in a state of over distension; or as if in a state of full respiration. On the other hand, as in the contraction that takes place after pleurisy, you observe the chest is fixed in a contracted state. This is not only obvious to the sight, but it may be determined by examination. Now this practice is the most accurate mode of detecting inequalities, but it is a troublesome thing. We must not mind trouble in investigating disease, and trying to get at an accurate calculation with regard to it. You will find it advantageous to practice your eye as much as convenient; it requires a greater exposure of the patient, but it must be done if required, The plan is to take an exact measurement of the corresponding parts: that may be done by a tape passed round the chest, making it meet at the side. This is the usual mode of measurement. If you suspeet liquid chasion in the lower part of the chest you should take the upper portion of the ensiform eartslage, on which you may press your finger, and dividing the string, bring it tight on the thorax. The tape should be perfectly horizontal. The measurement by the tape consumes a great deal of time, but it is more convenient than the callipers. It may be used in the measurement of the vertical diameter of the chest. Take any given portion of the spinal process; pass the tape over the shoulder to any part of the central portion of the stermm, or the daviele, and pass the string round on the opposite side, and then you will perceive a difference on that side, taking care to apply it tight on the parts. The direct diameter is taken more conveniently by the callipers, for in that case you do not emit the body projections. The spinal processes and vertebra are the best points to proceed from. Measurement is not always a more accurate test than inspection; for sometimes there is a change of shape without any change of size; and in many instances-in cases of considerable distortion-it is obvious to the eye; there is a sort of flatness in one part, and an enlargement of another part, so that actual size is not determined by shape. Then there is internal measurement, tried by Abernethy and others-by directing the patient to blow into a jar of water; but this is no index of capacity; it is not what quantity of air the patient can contain, but what the museles have the power to do. A patient may blow a large quantity of air into a jar; or from want of strength, and not from want of capacity of the lungs, the patient may blow only a little. The same objection will apply to the attempt to measure the capacity of the lungs by inspiration.

CURABILITY OF CONSUMPTION.

(Continued from page 233-)

To the Editor of the 'MEDICAL TIMES.'

SIR,-The next antagonism to phthisis, in the order I have laid down for consideration, is:-

Hysteria. - Individuals in consumptive families labouring under this affection, are rarely susceptible of tube dulous deposits or manifestation It has the remarkable effect, as may be frequently observed, of giving greater or less roundness and falness to the chest, according to its degree of severity, and the length of time it may have lasted. Spasms of the membranous portion of the trachea is the main cause of the laborious and irregular breathing. The air, being forcibly drawn in, and retained, distends the air-cells; this, to-The air, being forcibly drawn gether with the spasmodic action of the diaphragm, reduces the convexity of that muscle, thus ealarging the capacity of the thorax, and the frequent occarrence of the paroxysms with the long establishment of the hysteric habit in the system, ultimately lead, by these means, to permanent enlargement of the lungs, and expansion of the walls of the chest, it being a well-known fact that the latter contract or expand in the same proportion as the lungs. Dr. Ramadge, in his work on Consumption, speaking of individuals who are little liable to phthisis, says, (page 81) "To these I may subjoin persons who are affected with diseases of the convulsive kind, such as hysteria and epilepsy, or, in truth, all in which a prolonged or foreible retention of the breath is frequently seen." In hysteria of any considerable standing, the neck is rounder and fuller, than usual:-if I might so express it, hypertrophicd-both in the muscles and the integuments. The sterno-cleido mastoid muscles, in some cases, become so large towards their insertion as to exert a lateral pressure on the trachea, near the sternum; thus offering a permanent mechanical impediment to freedom of respiration. Some mouths ago, Dr. Ramadge showed me a well-marked case, illustrative of this peculiarity, at the Infirmary for diseases of the lungs. The patient had been admitted to the institution, a short time previous, for catarrhal dyspacea, and exhibited an extraordinary development of the steruo-eleido mastoid muscles, evidently sufficient by their lateral pressure, to diminish the area of the tra-This person had, antecedently, laboured under consumptive disease, as appeared from auscultation and the history of the case. The dyspnœa, no doubt superinduced by the pressure of the muscles on the front of the neck, had removed all the symptoms of the former complaint. In aggravated cases of epilepsy, patients rarely die of consumption, for the reasons just mentioned under " hysteria." Every convulsive disease acts, in re or less, as a prophylactic. It need not be inferred that the existence of these, or any other morbid conditions is, per se, a desideratum; this is by no means the opinion of the school to which I belong. I simply profess to be, however imperfectly, Nature's historian; and my object is to direct attention to her movements, with a view to their judicious imitation, that we may accomplish, more frequently and safely, that which she attempts too often without success, or only partially achieves. In her well-intended, but sometimes ill-conducted efforts, he is prone to run, as I said before, from one extreme into another. I might enter into further details under the present head, but should, by so doing, only multiply illustration, and occupy space unnecessarily,

ASTHMA. - The several varieties of this affection act in the way already described; viz. by enlarging the air-cells, which they do more or less; a latnently, according to the frequency and duration of the paroxysms. Even in those cases of pure asthma, where the intervals between the attacks happen to be long, leaving time for the lungs to return to their previous dimensions, a certain amount of protective effect is gained. Indeed, 1 have never known an instance of pure asthma succeeded by phthisis. This I should suppose, a priori, would be the case, inasmuch as the exercise and expansion of the lungs, though occurring with comparative unfrequency and of short duration, can searcely fail to exert an influence sufficient to alter the scrofulous habit, and render the lungs unproductive of tuberenlous deposit.

Asthma has the effect of taking away the perpendicularity of the windpipe. The pomum adami in males becomes exceedingly prominent, and, in both sexes the inferior part of the trachea is retracted sometimes to a remarkable extent. The inspection of the front of the neck will frequently cnable us to form an opinion of the state of the lungs, and constitutes no mean addition to the number of our diagnostic signs, in certain forms of thoracic disease. I may here observe that in this affection also the principal seat of spasmodic contraction is in the membranous portion of the tra-

chea, forming its posterior boundary.

An interesting case, illustrative of the antagonistic power of asthma to phthisis, occurred about three years ago in the infirmary for diseases of the chest. James Walford, a pipe maker, labouring under consumption, was admitted by Dr. Ramadge as an in-patient; he displayed, unequivocally, all its anscultative signs and constitutional symptoms. He had moreover, ulceration of the pharynx, which, in spite of suitable local applications, extended itself downwards, till, on reaching a certain point, asthmatic convulsions of a most violent description took place. A stridulous, mucous ronchus was heard in the windpipe; the lungs became suddenly and enormously emphysematous, and the difficulty of breathing almost intolerable. The asthmatic condition lasted, with few intermissions, for some months, and disappeared only when the pharyngeal ulceration was healed. During this period, from the very commencement, no phthisical symptoms had shewn themselves. The nocturnal perspirations, &c. ceased altogether, and have not since returned. He has been seen by several medical gentlemen at the institution, which is always open to the profession, and among them were three highly intelligent American physicians.

I have seen in Dr. Ramadge's case book, another interesting case, which I beg to add. The patient, who had been proviously under treatment at the Middlesex Hospital for phthisis, presented himself at the infirmary for relief from severe catarrhal asthma, which, it appeared, had for some time masked the consumptive symptoms. The regulated temperature of the atmosphere of the ward, together with the medical treatment, soon removed all mucous irritation, and, with it, the spasm. He was discharged cared, and remained free from asthma and phthisis for 17 years. During this period, however, he had had an attack of insanity, and, latterly, his habits became drunken and dissipated. Being refused admission at St. George's Hospital, as a hopeless case of phthisis, he again applied to Dr. Ramadge for advice, but it was too

late; he died a few days afterwards.

Here was total absence of all asthmatic interference for a very long period, possibly, in a degree, owing to the attack of insmity, which has a tendency to supersede asthma. Had the asthmatic affection recurred at intervals, the return of the consumptive state might have been prevented. From the whole, I would draw the conclusion that astlima, once introduced into the system, being in some instances a curable disorder, does not necessarily imply that the individual so affected may not at some period, die of phthisis. When a cure of atshma takes place, the system is in statu quo, so far as liability to phthisis is concerned. In the case above related, it is probable that the man's intemperate and debauched babits had so far weakened his system as to bring on contraction of the chest, from

elevate the ribs,-new tuberculous deposits took place, or old ones liquefied, or perhaps both,—a cavity formed, and the disease terminated in death. I should here subject in that the asthmatic state in the first instance was of very short duration. I find after a complete cure of asthma, that the return of the phthisical disease is rare.

CATARRH, or Bronchitis, syluptomatic or idiopathie, in almost all its phases and varieties, is attended with more or less bronch, al intumescence. By catarrh, I understand irritation of the mucous membrane of the air passages, in an y part of their extent. It is either latent or man fest, mild or severe. In its mild or latent form it .may happen to be unaccompanied by either cough or .expectoration, and can only be detected by the ear. The easy, soft, downy murmur of natural respiration, degenerates into a course heavy breathing, with prolongation of the expiratory act. Between this and its aggravated forms, there are various gradations in the scale, but the trunefaction of latent catarrh, if of any considerable duration, is suffi-

cient to antagonize phthisis.

Perhaps there is no morbid affection more common in this climate than catarrh, particularly in cold and damp weather. It is symptomatically present in most chronic diseases of the heart and lungs; in all februle affections, and in numerous cases of impaired constitution. When irritation of the trachea takes place, or spasm of its posterior membranous portion, it is propagated downwards by continuous sympathy. But for the interven-tion of this complaint, the mortality from consumption in Great Britain, already so considerable, would be far more than doubled. Dr. Ramadge is, I believe, the first who taught that it is a preservative against consumption. Laennec, with all his acumen and experience, with the proofs daily staring him in the face, never alighted on this simple and important discovery. He combated, along with Bayle and others, the doctrine of the old schools, that it was one of the causes of phthisis, but most unaccountably overlooked its preservative influence. He has recorded cases of chronic catarrhal persons who lived to an advanced age; he had an opportunity of examining many of them after death, and observing the traces of old tuberculous disease, either cured or rendered quiescent, and yet never even so much as suspected the inherency of any preservative power in catarrh, thus verifying the old adage, 'non omnia possumus

One of the circumstances which contributed to the erroneous supposition that catarrh is one of the causes of phthisis is that the two are often found coincident. We are, however, more liable to set down a case of phthisis for eatarrh than the latter for the former. Dr. Ramadge has shewn me many examples of this mistake, and says they are very common. He is constantly in the habit of noticing them to the medical gentlemen who attend the Infirmary. Where there are small incipient cavities, separated by healthy pulmonary tissue, or small disseminated tubercles beginning to form yellow points, the car may not be able to detect any positive evidence of the morbid phthisical action commencing in the lungs, aye, even that of a practised auscultator. The best guide we have in this musatisfactory state of things, is the absence or presence of successive nocturnal or matutine perspirations, and this will enable us to discriminate in all cases, excepting a few complicated with affections of the heart. When present, the patient is decidedly consumptive. Inattention to this symptom too often leads to a false diagnosis, even with some high authorities; the patient is pronounced catarrhal only, his apprehensions are disarmed, and he rests for a time in the enjoyment of a fatal security. This important symptom is overlooked or undervalued, because the ansenltatory signs are either absent or obscure. Ansenltation, under such circumstances, is purely speculative. The perspirations, though, with many a disearded symptom, will, as I have said, in almost all cases, alone, enable us to decide cor-

Dr. Ramadge informs me that he is frequently applied to for advice in such cases, when it is too late to redeem the error, and all that is left him is want of power in the muscles of inspiration to the melancholy task of pronouncing on the real character of the disease, and when permitted verifying, by autopey, the correctness of his prognosis. In the latter stages of phthisis, catarrh is always present, arising, probably, from extension of the inflatomatory action in the substance of the lungs to the lining bronchial wembrane, but it occurs too late to arrest the discus-

Assuming, as I do, that gener I debility is the great chief cause of subcreatous deposit, I may be asked why convale cents from fever do not recessarily become consumptive. The answer is furnished by the some vistence of exturrb, either latent or manifest, defeating contraction of the chest, and

its consequent deposit of tubereles.

Acute or inflammatory catarrh, independently of the direct danger to which it exposes the systen sometimes bring en a rapid and simultancons liquefaction of pre-existent tubercles; and, though its own come may be arrested, the patient may die of galleping consumption. fluenza frequently proves fatal in this way, when Like mercury, it quickly matures all crude tuberculous deposit, and if these be large and extensively distributed through the pulmonary tissue, their general and speedy solution is too much for the lowers of nature, and the patient sinks If, however, the deposit be small and partial, and the inflammatory affection moderate, the climination of the morbid matter is often followed by a cure, more or less complete and lasting, but generally entailing a catarrh. We have been visited within the last few years with this epidemic, in a severe form. Dr. Ramadge informs me he has seen many persons, a long time subsequent to an attack, having cavities too large to be healed up by the bronchial disease, but with the pulmonary tissue everywhere else in a tolerably healthy state, in consequence of its inordinate exercise from the presence of the entailed catarrh.

It is of importance, in the interrogation of a patient, to ascertain at what season his phthisical symptoms first appeared. The chronicity of the disease decends much on the fortunate accident of its occuring in the winter season.

Discipelles.

(In be Continual

TO CORRESPONDENTS.

Mr. Blythman is that a d for his abliging communication. He pludly overpt li appreciated offer.

The Gentleman, who is a licentiate of the ball, and a member of the Cather of Surgrans, is of course eligible to oil the medical appaintments of the Poor Law C mmissiovers.

A Poor Practitioner.—Br om d Little may, no ove oft in, these extend our jity to this Correspondent . Co. Phy r my after , has had his small ris mice. n adv less' y the fluctuating and ainless policy of the College of Surgions. When a new more similar in-College of Surgerys. Meen a sew more someon or stowns of note, reconnect (authoritized) come before as we had be botter respond to deed with the question. The diseased I tredice months previous I pital practice is to every open if to the "examination of gene homeo practically to the recognition of the second many that is not a soft with a property of the second many transfers."

An Old Subscriber, tel y a brestate of the ed-Texas of a marrier of the Coper of Surgion , has, therefore, so roots to emper of lesson weathings, and charge for them as an apothecory. It he conductors apothering lefter 1815, the 55 of G. III, v. 194, pretects here were more character the forces. There is, however mechanic of interference by the Se-

Our review of Faraday's "Manipulations" Ins. produced us a communication, from which we extract the following:- ** If vir to 60 of u, not itnnately too prevalent, that all a result in a ser somewhat derogatery; it is to comprehend the theory of a vience is quite energl, and that all manipulate should be delegated to assistant contrabil. Not chinaising, justly providere she is it for after froms, refuses to dispulse the pleasare of her wegan itace to all who are too provider to all to become navigation the welless. "We facker outside while also fellow all ranger of landicraft, from the landill's delicacos of glass-booking tuth meeding of the axia Alica. Lettles! Be and mach phasein lookin acquiniting all who aim at tring it in sts that they must do the sume Without such a facility, vatural or acquired, the most splendid powers of our d, the most brilliant suggestions

if genius, will be imflectual. New Taraday's * Manipulations is not the last, but the only book, in this er any language, capable of hielding the required intermulien; its ebject i., as the author expresses himself. * to facilitate to the year & chemist the acquarement of manipulation, and by consequence his progress in the science itself. It does not attempt to irrelente the principles of a care, but the practice : within deer it claim to teach a habit of reasoning, but has solely in view the art of experimenting. One great fascination to sessed by this column is, that it strives to remore the old prejedice in factor of an expensively appointed laboratory. In jumps are replied by copping glasse—drinking tumblers are applied to nees invamirable, and as fer the inequivare glass tubes, they, by the blowpipe's aid, are neclescorphosed into tens of thorsands of us ful form. Here it is renembered that such advice emanates from one who has the commond of perhaps the most profusely appointed laboratories in Europe, we need not doubt its sincerity."

Aquarius reminds us that in recent clauses in Water Works Acts the rever Thames water is specially required to be offertually purified by means of filtration, and asks whether filtration can effectually parify it? We have no headation is answering in the negotive. Animal matter way be, and with regard to the Thames is, held in sur! infinitesimal leavily, that no amount of filtration can achieve the work of defecution. We must add to this opinion our settled belief, that even much that might be dene by filtration, in the way of making the victropolitan supply at least decent and cleanly, is writted through a shabby and very mischievous economy fly many of our Hater-Wark The Ast., we drick, provide against the , if spire of indicalnals would but so them enforced.

A number of other Correspondents will be unswered west neck.

NOW BLADY.

THE MEDICAL TIMES ALMANAC, FOR 18th Control of the Control of the

Paice 4b, Stamman

MEDICAL TIMES.

SATURDAY, JANUARY 14, 1843.

Lad mode's may have good points .- Landeles.

Reserving to a future occasion, any remarks we may wish to make on the state of our medical brethren in Austria (as given last week), we proceed, now, to present our readers with

THE MEDICAL ORGANIZATION OF PRUSSIA. There are three grades of medical menfirst, Doctors of Medicine and Surgery-secondly, Tirst-Class Surgeon: - hirdly,

Second-Class Surgeons.

The " Doctors," before entering as medical students, must prove their possession successively give two months exclusive atof a liberal education, extending to a knowledge of natural and metaphysical philosophy. The studies extend through four years, and must be reade in one of the five Universities of Berlin, Konigsberg, Grefswalde, Helle, or Bonn. On producing certificates of regular attendance, they are amination (for practice), and either estaadmitted to two rigorous-examinations, one blish themselves as Civil Physicians, or of which is conducted in Latin. The aspire to the desiderated post of medical courses of Lectures, which are half-yearly, attendant to the Great Military Hospital, are con alcred expensive-about a pound, which is always accessible to one in nine, being poid for those occurring four times. The latter appointment gives a right to the a-week; two, for those occurring daily, next vacancy as Regimental Surgeon, The diploma of Doctor of Medicine and Military service extends, in rule, to eight Surgery, however, when acquired, gives no years—but, in practice, the Army Surgeons right to practice, which is only obtained by a are allowed to retire much earlier, and have

further years' attendance at an hospital, or on the practice of some distinguished practitioner-and by practical proof of capebility, as evidenced in the treatment of (at least) two patients, in one of the public hospitals. This, which is called the State examination, and which costs nothing, is presided over by a Commission composed of the University Medical Professors, and of the principal medical new either of the bospital or of the city. The examination can take place only at Berlin, except in special cases of sickness. Thus admitted, the Doctor may practice in every part of Pru sła.

The First-Class Surgeon is not icquired to have studied philosophy, but must have acquired a good preliminary education in one of the State schools. After three years study of medicine and surgery, which costs him nothing, he is admitted to an examination, which is not severe, and for which he pays about £10. He is then allowed to practice anywhere in the country, or in towns not having more than 1 000 inhabitants.

The Second-Class Surgeons differ from the preceding, in studying for only two years-in paying a pound less for their examination, in which they are obliged to show their knowledge of Latin. They may practice anywhere.-but if in cities, they are placed under the control of the Doctors and First-Class Surgeons. In cities, also, they are forbidden operations, and the practice of medicine, except under superior orders; and their numbers are limited in a certain proportion to the population. They frequently keep shops, and unite the trade of barber with surgery. In the country, they are in no way interfered with.

MILITARY MEDICINE assumes great importance, as might have been expected, in Prussia. The army doctors must all pass, whatever their previous acquisitions in medicine, through the "Frederick-William-Institute"—in which they receive lodging, food, and instruction, gratis, with a small pecuniary aliowance. The course of studies is similar to that of the Doctors before given, up to the point of receiving the diploma, which is paid for. The candidates are then placed, as dressers, in the great Civil Hospital of Bernn, where they tention to the different divisions of surgery, -Midwifery, Medicine, Diseases of the Eve, &c. They are then nominated, as Surgeons, to a company or battalion-and, after three years, they are frequently permitted to return to Berlin, to pass the second exthe fullest permission to establish themselves in civil practice in any part of the Empire.

Candor dat viribus alas.

THE recent occurrence of a contested cleetion for the Coronership of Gloucestershire, in which (from political, or rather exers, considerations) a medical candidate susof another, for the county of Durham, in which one legal and two medical candidates are reciprocally opposed to each other-the two circumstances occurring on the heels of each other-have recently drawn considerable attention to the question of the rival claims of Medicine and Law to these indicial appointments.

Before considering this interesting and very proper subject of enquiry, it is right to state-that medical men, in advancing their claims, stand (as a body) with clean hands before the public. The experiment of Mr. Wakley's coronership, if it has proved nothing further in the way of cxtrancous weal, has certainly established the previously-unsuspected fact, that medical men have, as a body, a strong pecuniary interest in the preservation of legal coroners. To the extent of the number of coroners in the kingdom there are, we admit, individuals in our ranks who have a pecuniary interest in excluding legal candidates,-but, with the exception of those units, the who'e thirty thousand of us are bound over to oppose an aspiring brother, in as many guineas as we are likely to have attendances on fatal accidents and sudden deaths. In one word, the MLDEAL coroner can do without us - the LEGAL cannot. Now, if we cannot, as we would wish, deduce from this circumstance any certain inference that, by medical coroners, there will be a reduction in the county rates proportionate to the medical body's lossesrecorded on the Middlesex ledger one rather startling instance to the contrary)we may, at least, thence fairly claim for our judgment the high value conferred by disinterestedness, if, after maturely weighing the subject, we prefer to the office those of the two who will be to us the source of the less emolument.

The best possible coroner would, undoubtedly, be one who was at once perfect lawyer and perfect doctor,-one who, in the first capacity, would rank with a Follett -and, in the second, occupy equality with an Arnott: but superlative excellence of this double kind can only be expected in such a man as the Admirable Crichton; or that still more admirable character of our own day, who, invested in his cerebral development with all the omnipotence of a very fortunate vanity, is at once an efficient M.P., a laborious journalist, an ardent coroner, and indefatigable—invalid!

We pass, then, to the second-best coroner --who, to our minds, is he who knows enough of law to keep him out of constant collisions with its legitimate expounders, and save him from a morbid fear of the ence to the legal candidate.

reporters, and is sufficiently well acquainted with medicine to know where medical testimony is required, and how to estimate

These two classes of candidates, however, rarely come before us,- and the practical question is between the merelawyer and the mere doctor. Examined tained a defeat—and the expected approach by our test of public good, the conclusion is soon reached. Life is of more consequence than law—health than technicalities the prevention of crime, than the avoidance of verbal contentions, - and, in something like that proportion, is a MEDICAL of more value than a Ligyl coroner. Which would the poisoner more fear? Under which of them would be be most deterred from crime? The external aspects of men dving by apoplexy, heart diseases, poison, and rupture of the viscera by certain kinds of external violence, present no distinctive characters to non-medical mem. Various as are those causes of the same fatal result, they stamp no abnormal, certainly no prominently dissimilar, physical effect on the external frame; indeed, so slight are the outward distinctive traces, that the most they would probably effect for the most practised medical man—the ablest physiognomist of death (so to speak)-would be to awaken suspicion, and urge him to those further investigations which would tell, with something like certitude, the agents that have been in action. The existence of a difficulty of this kind—and of no common occurrence either—is shadowed out, and not darkly, to us, by the unmerous verdiets of "Died by the visitation of God"-under which coroners and juries are accustomed, every day, to shield their ignorance of the specific causes of death. The legal man may have a better notion of verbal or documentary evidence, - may better estimate its worth—but he is at sea on all that (our model coroner having, unfortunately, regards the best and strongest of all the evidence offered - that presented by the corpse. The perpetrators of murder seek no witnesses,-apart, therefore, from corroborating circumstances, the main witness will always be the deceased; and it requires no great perspicacity to see that, when a coroner cannot attain the requisite evidence for himself, nor know how or when to ask the assistance of one who can, the criminal finds no greater friend-and guilt no greater coverer-than the judge whose office it is to detect the one and punish the other.

Thus hastily glancing at the question, we may shortly state that our arguments resolve themselves simply into this:-the office of the coroner being as much medical as legal, if he can only master one-half of his duties, that half should be (if there be any difference) the more important division,-which being evidently that which enables the coroner to make his office most preventive and detective of crime - we mean the medical division-it follows that in the cause of public health, public morality, and individual safety, the medical (ceeteris paribus) should be supported, in preferEXTRACTS FROM FOREIGN JOURNALS.

MULLER'S ARCHIVES, No. 1V. 1842. Thus number contains several papers of interest. The first is:

On Parasitical Fungi, developed by the Mucons Membrane of Dead, and Living Human Bodies. By Adolph, Hannover.

The author of this paper offers the result of his observations on a great number of subjects, healthy and diseased. It would seem that certain disorders (of which typhus is ore) result from, or at all events, are coincident with the growth of peculiar fungi on certain mucous membranes, particularly of the œsophagus and other portions of the alimentary eanal. An abstract of the paper, which is very long and accompanied with tables, shall appear in a future number of the Medical Times.

Contributions to the Anatomy of the Actinia. By Prov. Erre, of Munich.

On the Development of the Astereida By M.

Some Results of Examinations relative to the Anntomy of the Arancida. By Dr. E. Grube. Observations upon the Swimming Bladler of Fishes, with reference to some New Genera By J. MULLER. Read in the Bedlin Academy of Science, June 16th and 23d, 1842.

The subject matter of this paper is arranged under three separate heads:

1. On cellular swimming bladders and lungs.

- 2. On a springlike apparatus for increasing and diminishing the density of the air in the swimming bladder in certain genera of siluroides, and a similar structure in other
- 3. On a family of soft tinned fishes possessing ossula auditus io connexion with the swimming bladder, with remarks on the system of soft finned fishes.

First.—The first division of the subject is thus commenced: "The older accounts of organs which served the purposes of lungs, or the cellular swimming bladders of fishes, offered by Severinus, Brodbelt, Schoepf, Broussonet, and others had not been confirmed, but Cuvier discovered, in the levisontens and amia, a true cellular swimming bladder, similar to the lungs of a reptile. I have discovered a snailar structure in some other fishes, besides the genus erythrium Gronov., where I annonneed its existence some time ago.

Muller details the particulars of his discovery, a d purposes to make the presence or absence of this cellular, or lung-like structure in the swimming bladder, a character of specifie difference in the genera crythrinus, macrodon, Finally, he concludes the and calophysus, first division of his paper with this remark : " As certain as the swimming bladder of fishes is no lung, it is no less certain that the development of a true bing in tishes cannot be denied as impossible."

Second -" The greater number of fishes," says the writer, "are not in a condition to rarify the air within their swimming bladders. The muscles of the latter are intended for the purpose of the air's compression. Quite differcut is a structure discovered by me in certain genera of river fishes, where the states of compression and rarefaction are placed under the control of two active and opponent forces, centred within the fish itself, in such a manner that the compression is continually active, and originates in the elasticity of a spring, whilst the rarefaction depends on permanently acting vital muscular powers, the force of which this spring can suspend at will. When the compressing agency of the latter is not in operation, such fish swim at a great depth, corresponding with the specific gravity of their bodies, as determined by the compressed air in their swimming bladders; but they rise to the surface through the agency of muscles-a condition different to that of most fishes.

Then follows an anatomical description of the spring like apparatus.

Third.—With respect to the third division of the subject, Muller states, that Weber discovered a connexion between the organs of hearing and the swimming bladder, by the intervention of own auditus in the genera cupitnus, cobites, and silmus, This peculiar structure, the anthor has discovered to exist in many other genera of true eyprinoids, as well as every genus of siluroids, provided with a swimming bladder. The connexion of the swimming bladder without hearing bones, directly with the labyrinth through the intervention of air canals, as in the genus clupica, Muller discovers to exist in many other genera under Cuvier's elopeides: also in the engraulis and notopierus.

On the Anatomy of the Sepiola. By DR. W. Peters, assistant in the Anatomical Museum of Berlin.

This gentleman states that he was engaged during a long residence in the Mediteranean Sea, in examining the structure and habits of various molluscous animals; -- particularly the class cephalopoda. His attention was especially directed to the Sepiola, or cuttle-fish tribe, with the view of settling some anatomical discrepancies as to the real form and constitution of their ink-sacs. He thus commences his paper

"Grant described the ink-sac of Sepiola as a great, almost quadrangular sac, consisting of three flaps, of which the two lateral ones are reniform, and the front one possesses a thick glandular white partition. Owen has, however, observed in his 'Rossia Palpebralis,' (Sepia p spebralis Gervaise et L'aubenedeu), a construetion of the ink-sac altogether different from that just described, inasmuch as it possesses all the simple form common to other cephalopoda.

Dr. Peter: proceeds ito say, that he discovered considerable dissimilarities of this structure in sepiola not otherwise distinguishable from each other. Some possessed one simple sar, just like all mollusea of this class; in others, there were seen two black-synchronously pulsating organs, one on either side of the intestinal canal. The contractions followed each other at about the interval of a second between them. Peters at first imagined those organs to be accessory hearts; but further investigation satisfied him that they were devoid of any connexion with blood vessels, but communicated merely with the central sac.

He proceeds to say, -" This very different structure of the organs in the sepiola, appeared a circumstance of sufficient importance to warrant the assumption that there was a distinction of species, if not of genera, notwithstanding all other similitudes."

Further investigations, however, induced him to alter this opinion, and the examination of many specimens, caught at various periods of the year, proved, almost incontrovertibly, that the varieties of structure already alluded to were merely temporary. He is nnable to assign a cause for this, but finds it quite independent of differences of sex, or the various phases of development of the sexual organs.

Finally, he concludes by saying, "I must also leave it in doubt whether this change occurs yearly or not; although the former appears probable, from the circumstance that out been sent for, and arrived whilst she was in through?

of many of these individuals canabt late in the summer and in autumn, there were at least as many without as with the lateral organs; whilst amongst almost fifty caught in the months of April and May there was found only one which possessed the simple vascular organ."

The description of Grant is presumed to have been the result of an alteration in the physical appearance of parts, occasioned by their immersion in spirit,-under similar circumstances, Dr. Peters remarks, he should have come to the same conclusion. Dr. Graut's specimen, it would appear, was caught early in the year, and his description is correct so far as it conerns the dend animal mincerated in spirit. Professor Owen's specimen would seem to have been taken late in summer, or in the autumu at least; judging from the researches of Peters, his description refers to the form of ink organs in that season.

CASE OF ENTUSSUSCEPTIO.

L. J. N. ASHWOOD, L. J., North M. Itan.

Oct. 27th I was requested to visit Miss V., at. 22, of full habit: she was then on a visit to some friends in this place. I was informed she had been in great pain for some hours. found her suffering from enteritis; she complained of excessive continual pain in the lower part of the abdomen, just above the pubis especially, but diffused over the whole abdomen, with great tenderness on being pressed, constant sickness and vomiting, bowels not constipated, urine natural in colour and quantity, pulse 120, the usual pulse of enteritie inflammation, she could lie with her lower extremities extended without inconvenience. immediately bled her ad syncop., gave her a full dose of opium, and as soon as hot water could be made ready, placed her in a hot bath, where she continued till she fainted: when placed in bed, fomentations and light poultices of bran were applied to the abdomen, calomel and ext. coloc. omni bihor, until free evacuations from the bowels were procured. The pain and siekness were much ameliorated after the bath, and in a few hours she became quite free from the inflammatory symptoms; the pulse under 90, fuller, and soft; the bowels freely moved - no tenderness or soreness of the abdomen on The next morning, the 28th, I pressure. found her comfortable, but in the afternoon I was sent for, as the inflammation had returned with the same violence as on the preceding day; the symptoms were as before, and the same measures were had recourse to with the same success. The next morning I was again called very early, when I found the disease returned; bleeding, &c. were again employed and with effect as before, she became quite easy. The next day, 30th, she was free from all symptoms of inflammation, but suffered from violent spasmodic pains in the abdomen (about the srobiculus cordis, and above the pubis), shooting through to the loins, the pulse not quickened; but this was soon relieved by a liberal dose of tinet, opii. I left her at night free from pain, the bowels had been relieved several times. On my morning visit of the 31st, I was much distressed to find the inflammation had returned, with, if possible, greater effect than before; I immediately bled her to syncope, and a bath being quickly got ready she was placed in it. At this time, her father having wished their family medical attendant to be called in with me-Mr. Flexman, of South Molton-he had the means of bringing the patient safe

the bath. I mentioned to him my suspicion of intussusception, not from any diagnostic symptom being present, for there was none, but from the ob-tinate renewal of the inflammation. after appearing quite extinguished. He con-curred with me in the necessity of again bleeding, for the last, although copious, had produced no relief; she was bled in the bath to a considerable quantity, but syncope was not produced, yet she was in a fainting state; when taken out of the bath a blister was applied over the whole abdomen. The symptoms gradually gave way; she had no return of the inflammation, but the following day she suffered from violent spasmodic pain in the right iliac region, with some fulness, but no definable tumour, with tenderness on pressure, no tenderness of the abdomen generally; the pain was relieved by occasional opiates, &c., when violent, together with fomentations, poultices, &c., but not removed. She now began and continued gradually to improve, yet the pain continued occasionally to harass her. She took no medicine after the sixth; on the 12th, she was removed to her father's house, when I lost sight of her. About three weeks after, Mr. Flexman requested I would call at his house, to see a portion of bowel and mesentery, which she had voided per anum the day before, and which her mother had sent to Mr. Flexman for examination, and which he considered a part of the colon. I called and found it as he had described, it was a portion of the entire canal of that bowel, about six inches in length, with its corresponding portion of mesentery attached; at the extremity of the mesenteric portion was a large artery, full the size of a goose-quill, with its open mouth as smoothly divided as though cut through with a scalpel, the mucous membrane of the bowel was of a dark chocolate colour, but the peritoneal appeared normal, the ends of the bowel appeared as though separated by the ulcerative process. The patient is at this time doing as well as might be expected, the only inconvenience she suffers is a difficulty of raising herself erect, with a sense of tightness near the seat of the cocum. Mr. Flexman saw her but once after she returned to her home, previous to her passing the separated bowel—she took no medicine.

It is quite evident this was a case of intussusception, inflammatory adhesion of the invaginated portion, and separation by ulceration there are many such cases on record, one where nearly a yard of intestine was separated, but in every case of intussusception I have read or seen, there were present unequivocal diagnostic symptoms of this affection. In this case, there was not the slightest symptom which could be regarded as diagnostic, unless the obstinate and frequent return of the disease might be so considered; there was nothing like stercoraceous vomiting, not the slightest appearance or smell of facal matters in what was vomited, but solely the contents of the stomach with bile, and the bowels were easily kept free (at first by caloni, and ext. coloc. c. and enemas), through the whole course of the disease, from its commencement until the separation of the howel: and after the termination of the inflammation, without the aid of medicine, her mouth was slightly affected about the lifth day. Before concluding, permit me to ask your readers, was not this life saved by the determined treatment? She was bled five times, each bleeding averaged at least twenty ounces Would not bleeding in clear cases of intussusception carried as far as is consistent with the preservation of life, be

MR. ROBEP'T STEVEN'S DISCOVERY OF left ventricle, nor any other agent but the THE TRUE FUNCTION OF THE SPLEEN, AND ETYMOLOGY OF THE WORDS "SPLEEN" AND "MILT."

(to the Editor of the ' Medical Time q'

Sir, -A few of your readers may have seen an aunouncement in the Lancet of December 3, 1842, to the effect that Mr. Robert Stevens, of Kennington has discovered the true function of the spicen. The announcement states that the "discovery" has been made by means of microscopical examinations of the organ in a live mouse, and that the details and results of the experiments are at present before the Royal Society. The Lancet says, " We are not acquainted with them minutely, but believe that the facts at which Mr. Stevens has arrived, may be comprehended by a very brief exposition, and which the Lancet then gives as follows

"The circulation in the spleen of a live mouse may be easily shown, for the organ in that animal is fissured, and often divided. The blood corpuseles undergo no detention in it, and there is no intervening nondescript parenchyma between the capillaries of the organ. The blood undergoes no change in the spleen. In a dog which has been opened alive the contrast in colour between the blood in the splenic vein and the superior mesenteric will be plainly seen. The organ takes its name from splen, splendeo, and its vulgar name "milt" from miltus, vermillion. It is only some time after death that the spleen acquires its deep blue tint. But Mr. Stevens it is said, has proved, by direct experiment, that the addition of the splenic blood is necessary in the portal circulation, or, in other words, that an addition of arterial blood is necessary in the portal circulation, for such the blood really is. Now, were the arterial blood added direct, we should have the imprecedented instance of an arterio-renous anastomosis, which is contrary to the laws of general anatomy. The spleen is simply the necessary interposition of capillaries, betwixt the splenic artery (which is the largest of the ceeliae axis) and the venous portal circulation. Such is the theory of Mr. Stevens,'

The preceding exposition is perfectly clear and intelligible. There can be no mistake as to what Mr. Stevens means. He says, in fact, that the use of the spleen is simply to divert arterial blood into the portal vein, and that the organ itself is only the necessary interposition of capillaries between the splenic artery and the splenic vein. In answer I shall begin by simply stating that my object is to prove first, that the use of the spleen is not to divert arterial blood into the portal vein, but to propel the portal blood through the portal plexuses and hepatic veins into the right auricle; secondly, that the spleen is not simply a mere interposition of capillaries between the splen e artery and splenic vein, which nature has placed there in order to avoid infringing one of her own laws, or to obviate the occurrence of a direct arterio-venous anastomosis between the splenic artery and vein; but that the spleen consists chiefly and essentially of renous radieles, and that it is to be regarded not as an isolated organ, but as the roots of an important vein, THE SPLENO MEPATIC VEIN, under which term is comprised the spleen, the splenic vein, the portal trunk, and its ramifications in the liver, to their terminations in the capillaries of the liver, the portal plexuses; and that the whole of this vein (roots, trunk, and branches, and of which vein the spicen is, as I have just said, simply the roots) possesses in an eminent degree the property of vital contractility, and is for the sole purpose of receiving the portal blood, and propelling it through the liver into

spleno-hepatic vein is capable of propelling the portal blood.

The case on both sides being stated, and made, I trust, perfectly intelligible, I shall now attempt to prove that the use of the spleen is Nor to direct arterial blood into the portal veus. I shall not begin by denying Mr. Stevens' statement that the splenic blood is arte rial blood. I admit that it is an imperfectly carbonised blood; and it would be a more dispute about words to disagree as to whether the blood in the splcen and splenic vein is renous or arterial. Upon this point we nearly agree. Mr.Stevens says the blood undergoes no change in the spleen. I, eight months ago, said, "the blood undergoes no change in passing through the spleen than it does by passing through most other ergans"-and, that "there is as good reason to suppose that the venous plexus of the corpora cavernosa penis is for the purpose of sanguification or secretion (that is, for effecting a change in the blood), as the venous plexus of the spleen:" and the arguments which I then advanced to prove that the spleen is not for the purpose of effecting any change upon the blood, I shall now adduce, in opposition, to Mr. Stevens' theory that the use of the pleen is to divert arterial blood into the portal vein. Mr. Stevens remarks, that the spleme artery is the largest division of the caliae: it is so in man only. In the quadruped the gastric and hepatic arteries are much larger than the splenic: and even in man before birth, the splenic artery issmaller than the hepatic; because the spleen is then small, owing to the placenta, which is simply a temporary spleen being the chief—I had almost said, the sole agent in the portal circulation.

In quadrupeds, the splenic artery is smaller than the gastrie and hepatic arteries, because the spleen bears a much less proportion to those organs in them than in man. In man, when the liver weighs more than three pounds the average weight of the spleen is about eight ornces; but in a pig (an animal which like man is omniverous, and the digestive organs of which bear no small resemblance to those of man) when the liver weighs there pounds, the spleen will weigh only four ounces. In the slicep and ox the relative size of the spleen to the liver is still less. Now, as in man, the spleen is in proportion to the liver as one is to six, and in the pig as our to twelre; it follows (as the spleen of the former is twice as large as the splcen of the latter—the liver in each being of the same weight) that the splenic artery of the pig will be only half the size of the splenic artery in the man, because the size of the splenie artery is proportionate to the size of the spleen, or to the quantity of venous radicles of which the spleen is composed; and therefore, as the spleen and splenic artery of the pig are only half the size of the spleen and splenie artery of the man, the portal blood of the pig will have only half as much splenic blood, or arterial blood, or imperfectly carbonised blood, supplied to it as the portal blood of the man. New I ask Mr. Stevens why the portal blood of the man requires twice as much splenic blood as the portal blood of the pig? or why the portal blood of the pig requires only half as much splenic blood as the portal blood of the man? It is quite plain that it is so. As the spleen of the pig is only half the size of the spleen of the man, the liver in both being equal, it is clear that the portal blood in the former can receive only half as much splenic blood as the portal blood of the latter. There must be a reason, and a good reason too, why in man the spleen as compared with the liver,

quadruped is, as compared with the liver of the quadruped; and I ask Mr. Stevens to give us that reason, to tell us, in accordance with the principles on which he rests his theory, Why it is so?

If Mr. Stevens theory is the time theory (and the Lancet announces it as such, and of course the Lancet ought to know) THEN THE SCLEIN OUGHT TO BEAR THE SAME PROPORTION TO THE LIVER IN ALL ANIMALS; AND OUGHT NOT TO BE IWICE AS LARGE IN MAN AS IT IS IN GUADRUPEDS. That is the objection I oppose to Mr. Stevens' theory; and that single objection will overthrow every false hypothesis concerning the splicen; and unless Mi. Steven: can show (which he cannot,) that the fact from which the objection is drawn squares with the theory, and the theory with it, as though the theory were made to explain the fact, and the fact to support the theory, -the theory must fall; and fall it will, for it is directly opposed to the feet; and is supported, not by iruth, which alone can substantiate a theory-but friendship.

Having then shown that Mr. Stevens' theory is at variance with an important fact, I shall, in the next place, show that his view of the structure of the spleen is erroneous. He says the spleen is "an interposition of capillaries between the splenic artery and rein." Now nothing can be more obvious than that this statement is incorrect, or that the spleen does not consist of capillaries, or minute canals intervening between the terminations of arterial ramifications, and the racicles of veins. The spleen consists chiefly and essentially of venous radicles, which are highly distensible, and as I shall subsequently show contractile; but who ever heard of capillaries being remarkable for their distensibility? It the spleen consists merely of capillaries, how happens it that sometimes it is distended, and at others contracted? If it consists of capitlaries, how comes it to bear so close a resemblance to the corpora cavernosa in "texture and phenomena?" Is the calibre of capillaries subject to much variation, and if not, how can the spleen, if composed merely or chiefly of capillaries, vary so much in its degree of distension, as it is known to do at dif-

But no argument ought to be needed to disprove Mr. Stevens statement. The most superficial and cursory examination of the organ is sufficient; at least in any animal of larger dimensions than a mouse. Mr. Stevens knew when he was framing his hypothesis, that it was necessary the structure of the spleen should accord with his explanation of its use. Unfortunately, however, it did not; and therefore he immediately set about trying to make the structure square with the hypothesis, because the hypothesis would not square with the structure. In short, nothing but the necessity of bolstering up a sick theory could have caused Mr Stevens to take a plexus of venous radicles for capillaries: unless, indeed, it so happens, that his microscope diminishes instead of mag. nifying the apparent size of objects upon which it is employed.

As my letter has grown to a considerable length already, I shall reserve for a future communication the arguments which show that nothing else than the spleno-hepatic vein can propel the portal blood through the liver. I will therefore conclude with the following extract from a letter which I recently received from a friend, and which shows Mr. Stevens etymological "discoveries" are about on a par with his physiological.

" Mr. Stevens derives the Greek word splen. from the Latin splendeo, to shine; and the the heart. I shall also show that neither the is more than twice as large as the spleen of the English word milt, from the Greek miltos, red lead. Mr. Stevens may have heard of a certain Greek author named Hippoerates; nay, stretching probability a little further, he may have read his writings-in a translation; and it so, he may, perhaps, recollect that Hippocrates makes frequent use of the word splen. Now let this etymologist take up Lempricie's Classical Dictionary, edited by Barker, and turn to the head 'Hippocrates.' There he will find that Hippocrates died b. c. 390; and if he further turn to the article 'Rome,' he may read thu :- 'B. C. 388, was a period when no Grecian writer knew aught of Rome-even by report, as a city actually in existence, since only two years previous (B. c. 890) it had been burned by the Ganls, and it was not till more than a century afterwards that the Romans became known to the Sicilian Greeks by the capture of Tarentum.' Thus (according to Mr. Stevens) the Greeks v. c. 391, were daily using a word derived from a language atterly unknown to them till more than a century afterwards! With regard to milt, it is a word current among all the children of the old Gothsamong the low Dutch, Danes, Swedes, Icelanders, &e., &e. It was a household word in the months of their forefathers; those old pagan savages who roamed over the forests and wilds of Europe Did these fierce idolaters, who neither knew nor cared for any language but their own guttural jargon, pay a visit to civilized Greece in order to learn that miltos was Greek for red lead, and adopt the word accordingly? Really the supposition that the word milt is derived from the Greek millos is utterly preposterous and unworthy of refutation."

I am, Sir, Your obedient servant John Jackson.

(, Stoneheld-street, Islandon.

I We are informed that Mr. Stevens modestly disclaims the etymological brilliancies for which Mr. Jackson gives him credit, and that they are the exclusive property of the crudite and very in-genious editor of the Lancet—whom to rob of such rare gems in the way of classical research would be little short of the one unpardonable sin. Verily the readers of the Langet must be a meek and most enduring race. How we pant for better acquaintance with such christian-like smitebearers !—Eb. l

PENCILLINGS OF FOREIGN MEDICAL MEN.

(Propare I from Gram to sources for the "Medical Times.") DR. SAMULL THOMAS VON SCEMMERING. (Concluded from page 219.1

After order had been established at Mentz, he returned thither, but soon resigned his office, and removed to Frankfort in the midst of his Here he completed his work on the structure of the human body, and his assertion that the substance of the heart is devoid of nerves, which he supported by numerous reasons, created a great sensation. Soon after, he published a work on the seat of the soul, which he sought for in the vaporous fluid of the cavities of the brain, the walls of which never approach each other, and contain the commencing and terminating points of the nerves, which are continually moistened by it, and are acting again reciprocally on the third of these cavities. Then followed his "Tabula seeleti feminini juneta descriptione;" his very instructive figures of the human embryo; a series of figures of the human ovum from the earliest period up to the third month, and then the figures of the basis encephali, unsurpassed either in accuracy or elegance by any other work hitherto published.-After some short interval followed the figures of the human eye, which were succeeded by those of the other senses, which, by their high finish, are considered as patterns in anatomical literature. But besides these splendid specimens of human anatomy and physiology, Sociemering began to the "Stars Firum lande Inginem, Istra vetical more."

pay great attention to comparative anatomy, and examined and determined many fessil remains of the primaval world.

Thus several years were spent entirely between the circle of his family and close attention to science, and if he allowed himself some relaxation, it consisted in travelling, in which he extended the sphere of his knowledge, and that of his scientific friends. A son and daughter were born to him, of whom the latter is now an esteemed physician and oculist at Frankfort.

When the late King of Bavaria intended to revive the Academy of Sciences at Munich, and to constitute it as one of the leading features of the state, his attention was directed to the great services which Soemmering might render this Institution, who was, therefore, named in 1805, one of its first members. About this time he made the acquaintance of Cuvier, having, amongst others, rectified the opinion of the great French naturalist about the pterodactylus, (an antediluvian animal), which Cuvier had ranged with the reptiles, but which Sommering proved to belong to the genus of bats (vide "Memoirs of the Academy of Munich," 1810.) They never could agree on that point, but remained friends notwithstanding. Cuvier described and figured in his great work on fossil bones, several specimens which he had obtained from Soemmering, and presented him, in exchange, with many rare paleatherium and anaplotherium hones, which are now deposited in the Scukenberg Collection at Frankfort.

His principal works of that epoch were "on the liquids absorbed by the nerves, as well in their healthy as morbid states, 1841." "On the crocoodylus priscus,"--" On the antediluvial lacerta gigantea, 1817." "On the tissue of vessels of the sclero-1817." tica of the eye, 1818." "Remarks on the stomach of men.

The favourable circumstances in which Seemmering had always fortunately lived, continued up to at advanced period of his life, and on the 7th of April, 1828, he celebrated the fittieth anniversary of his dectorial promotion, on which occasion a medal was coined, having on one side the image of the professor, on the other a figure of the basis encephali, by which he had become chiefly known. He lived two years afterwards in the proud consciousness of having so powerfully advanced science. But having during the severe winter of 1820, occupied himself with observing the spots in the disc of the sun, he fell at once into a state of debility, and expired gently on the 2d of March, 1820. His death was severely felt through Germany, and even through Enrope. The Royal Academy mourned this event in an extraordinary sitting, when Professor Dollinger pronounced a panegyric, from which especially the present memoir has been compiled.

An especial trait, which pervades all Soemmering's works is an unlimited love of truth, and the merits of others found in him the most perfect acknowledgment. His science he esteemed high, but searching, as he did, merely after truth, he did not extol any branch of it above an other, and kep aloof from any partial one-sided predilection. was repugnant to him if another expatiated on the excellence or preference to be given to certain parts of the human body, as if the others were coarser, less significative, less skilfully constructed, less worthy of our admiration. "As I can take to myself," says he, in the preface to the fifth vol. of his great anatomy, "some knowledge of the different parts which constitute the human body, I must confess that the hand seems to me as finely formed, as systematically combined, as worthy of admiration as the eye. I start from the axiom, hand is all, eye is all, and I warn any one from opposite one-sided prejudice." It can not be doubted that this enlarged mode of viewing the human body is the only one worthy of the real philosopher. We have before mentioned Seemmering's fondness for a tronomy, and his last observations of spots of the sun, which were arranged by Professor Thile, and published by the Senkenberg Society at Frankfort. Thus Societing, whilst he viewed everything from an elevated point of view, succeeded in inscribing his name even among

MESMERISM.

Latter of the 'Medical Time

THE RESIDENCE OF THE PARTY OF T

Sm, -- You did me the favor to insert some time since in your really valuable dournal a short account of an operation performed in Jamaica during the mesmeric trance, and on which a kind of doubt was east by me; at least I concluded my communication with saying that I was content to take it only on the authority of the editor of the Jamaica Desputch. I am now happy to say that the truth of such an operation having been performed is vouched for by the editor of Juna of Stanlard, a gentleman with whom I had the honor to be a quainted when in Jamaica, and whose word I would as soon take as his bond. inclose the paper with this; but to save you trouble, I will copy the remark be appends to the insertion of the case: he says " we can assure the doctor, that all is right upon this head, and that many other experiments of equal interest and importance have since been made with preci-ely similar re-

You will perhaps allow me to add a mite to the vast accumulation of mesmeric facts which are very day forcing themselves upon the notice of the imedical world. The first case is that of a lady who had a stiff neek. She complained very much of it, and I offered to mesmerize her. She consented, and I succeeded in twenty-five minutes. The second, was that of a man who had an extremely exerneiating tooth-ache, and he was proceeding to a dentist to have it extracted when he consulted me. I said I will remove it by mesmerism. The almost laughed at the idea; but, nothing daunted, I excited strong volition, and made the usual passes. In less than twenty minutes the toothache was gone, and the poor fellow was actually about to run away, thinking that I possessed the power of an evil spirit! I quicted his apprehensions. and he has had no return of the pain, excepting a soremess.

I must add one other remark, because I wish for information on the subject-it is this:-Whenever I mesmerize-particularly my son, a boy of five years of age-I have, at the tips of my fingers, a teeling of clamminess, which is like glutev. Is this an invariable accompaniment? Mr. Brookes, who was in London last summer, told me it was, and that he always felt indisposed after mesmerizing. I can't say that I do; but in the case of the lady. I had shooting pains through my head—but they did not continue long. Dr. Elliotson assured me that he felt no inconvenience whatever from mesmerizing.

Your obedient Servant, EDWARD BINNS, M.D.

Monfague street, Portmin Square,

AN INTERESTING CASE OF MIDWIFERY

By W. Thomas, L. ., Surgeon, Pembroke Dock.

Mrs. G., a young woman, pregnant with her first child, and near the period of her accouchment, stooping down for the purpose of relieving the bladder, "felt something," to use her own words, "suddenly crack across the lower part of the belly," and a large swelling of the right labium, was the immediate consequence, I was summoned on the moment to attend her. and found her lying on her back with her knees, of necessity, widely extended, to prevent the pain of pressure, and asserting "that the head of the child was actually in the world,' On examination, however, I discovered that instead of achild's head, the swelling consisted of extravasated blood, enormously enlarging the right labium, as above mentioned, totally deranging all normal appearance of the external parts of generation; cold applications, with aperients and anodynes, were recommended. There being no reduction in the size of the tumour, a lancet was introduced, on the second day, and, by the aid of the finger, masses of coagula, mixed with detached collular tissue, were, as it were, scooped out. Retention of urine occurred, and the bladder tilling, passed out of the pelvis, forming a distinct ewelling, extending along the right iliae region, nearly as high as the umbilious. The line of demarcation between the two viscera, viz., the bladder and the nterus, was acenrately defined by a deep fissure, each viscus being of great size, and nearly parallel. Every effort to introduce the common female catheter proved ineffectual. A gnm-clastic one being substituted, was, after considerable difficulty, introduced, and the bladder emptied of a quantity of urine, equal to four pints. When the instrument was withdrawn it had the twisted appearance of a corkscrew, and indicated an clongation of the nrethra to an extent, far beyond the reach of the silver catheter. The operation had to be repeated only three or four times before labour came on, the same impediment existing on each occasion. Finding the pains for some time of little benefit, although severe as to suffering, I administered a dose of the ergot-an infusion of the unbruised grain-and before the period arrived for the second, it being my usual custom to give it in divided doses, the pains became expulsive, a living child was speedily delivered; the placenta quickly followed, and no bad symptom afterwards occurred. The artery ruptured on the occasion (the uterine, or some other branch of the internal iliac supplying the parts,) must, from the almost instantaneous extravasation, have been of considerable size, and probably but for this infiltration, instead of external escapement of the vital fluid, might have proved fatal. The bladder recovered its tone without difficulty, never requiring any further introduction of the catheter after the labour. My friend, Mr. Noot, Surgeon of the Royal Yatch stationed at this place, who kindly afforded me his valuable consultation and assistance, having, like myself, never met with a similar case, I have deemed it advisable to publish the particulars, which cannot fail to be interesting, and for which purpose 1 solicit a nook in the pages of your valuable periodical. The case is important to the obstetric physiologist in various particulars. For instance, the immense and immediate extent of the extravasation, totally destroying all normal appearances of the external organs of generation, the displacement and distention of the bladder, with the consequent elongation of the urethra, together with the efficacy of the ergot in producing expulsive efforts in the nterus.

EXTIRPATION OF OVARIAN TUMOURS.

(To the Editor of the ' Medical Times.')

Sir.-You will oblige me by allowing me space to reply to some observation of Dr. Clay in the report he has given of his very valuable cases of extirpation of diseased ovaria. It was never my intention to advise any simple operation for ovarian dropsy in cases of en-larged and diseased ovana as described by the doctor; but as my previous painful experience consisted of twenty fatal cases, occuring in my own and in the practice of others, I lost no time in making the members of the Provincial Medical Association acquainted with the facts of my first case by reading them a short paper on the subject at their next meeting, and which is published in the fifth volume of the Transactions: "Sherwood and Gilbert, London, and Deighton, Worcester." The subject of this case is now in good health, and has been pregnant three times since the operation, and given birth to three healthful children

I have since witne sed a successful operation by Mr. King of Saxmundham, and another by my friend, Mr. Crisp, of Harleston, Norfolk. The lady, the subject of the last-mentioned

ease, had been 23 years suffering from the disease, and had been twice tapped. Three gallons of fluid were taken from the cyst, which was then removed without the slightest difficulty; indeed, I would always enlarge the wound, should difficulty occur at this period of the operation, rather than make use of violent traction, and, should the circumstances of the case require it, this simple operation might be converted into the formidable one recommended by Dr. Clay. This lady perfectly recovered, and has enjoyed several years of health since the operation. Mr. West, of Tonbridge has likewise published several successful cases: therefore I think Dr. Clay must be wrong in his estimate of the comparative success of the two operations.

I am, Sir, Yours respectfully, WILLIAM JEATFRESON, Surgeon. Pramlingham, Nov. 5th, 1812.

MEDICAL NEWS.

was the same and

PARIS ACADEMY OF SCIENCES, Dec. 26. -A paper was read on the experiments of M. Flourens on the bones of animals. This gentleman, acting upon the known fact, that if an animal be fed for a length of time upon food of a particular colour, that colour will be imparted to the bones, has made various experiments, with a view to ascertain the extent to which this absorption of colour can be carried. and how far it may serve to indicate the process of nature in the development of the osseous structure. After a long discussion, no other conclusion was come to, than that M. Flourens had, by his researches, rendered an important service to science.—An interesting paper from M. de Humboldt was then read.—He informs the academy that the preparatory labours for entting a canal across the isthmus of Panama are advancing rapidly. The commission appointed by the Government of New Grenada, for the construction of a canal to unite the two oceans, has terminated its examination of the localities, and has arrived at a result as fortunate as it was unexpected. The chain of the Cordilleras does not extend, as was supposed, across the istlmus, and, on the contrary, a valley very valuable to the operation has been discovered. The natural position of the waters is also favourable. Three rivers, over which an easy control may be established, and which may be made partly navigable, would be connected with the canal. The excavations necessary would not extend to more than 121 miles in length. The full may be regulated by four double locks, 138 feet in length; and the total length of the canal will be 49 miles, with a width of 135 feet at the surface, and 55 feet at the base; the depth will be 20 feet. The canal thus executed will be navigable by vessels of from 1,000 to 1,400 tons. According to the estimate of M. Morel, a French engineer, the total cost of this canal would be only 14,000,000 of francs, including the purchase of two steamers.—A report was made by M. Regnault upon some experiments by M. Poisenille, respecting the laws which influence the flow of water through very small tubes, showing that with a perfect equality in temporature, density, and pressure, the flow is in direct proportion with the length of the tubes. -An account was hid before the members, of the second journey of Messrs, d'Arnaud and Sabatier to the sources of the Nile, in 1811 and 1842, by the western branch, or White Nile.-A communication from M. Marisset, on the virtnes of the decoction of oak bark in various diseases for which it has not hitherto been siderable. The report of a commission on the

used, was next read. This gentleman states that this is a valuable remedy in cases of encysted dropsy, in adematons affections of the limbs, and for the obliteration of the herniary sack in young persons .- M. Chuart, the inventor of a means of discovering the presence of any deleterious gas when mixed with common air, has addressed to the academy a paper on the accident which occurred lately in the mine of Terminy, near St. Etienne, for the purpose of showing that if his invention had been in use there, the presence of the deleterious gas which caused the explosion would have been ascertained in time for the use of the precautions by which the accident might have been avoided. It is known that an explosion from the admixture of carburetted hydrogen with atmospherie air can only take place when the former exists in a certain and known proportion. When the quantity has reached or exceeded this point, the contact of a light instantly causes an explosion. The instrument recently invented to shew the existence of danger, is exceedingly simple, ingenions, and effectual. Connected with a chemical solution is a kind of float, nicely graduated, and attached to a counterpoise. The solution is of such a nature that it undergoes a change when acted upon by the admixture of earburetted hydrogen, and when saturated to a certain point the flat changes its position, and, acting in its turn upon the counterpoise, a spring is let loose, and strikes upon a bell or drum, giving out a loud sound, and thus indicating the presence of danger.

Jan. 2 .- M. Gasparin mentioned his discovery of a remedy for the disease in sheep called chronic pleurisy. A gentleman had a large flock of sheep, which, owing to the variations of temperature, were attacked by this disease. A great number had already died, and the remainder were regarded as incurable, when he was informed that a journeyman hatter had succeeded in curing the disease by means of arsenie in large doses. He tried the experiment on 20 slicep which were in a dying state. He administered to each 32 grammes (more than an ounce) of arsenic in powder, mixed with common salt. In a week two died, but the others were cured. No ill consequences, he says, attended the administration of the arsenic. Some doubts seemed to be entertained by several members of the academy of the correctness of the facts cited by M. Gasparin, and, supposing them to be true, it was observed by others that, in the event of administering large doses of arsenic, it would be of the utmost importance to ascertain how long a period would clapse before the poison would be expelled from the system.-M. Elie de Beaumont laid before the academy a specimen of quartz rock containing diamonds. This was wanting in gen-logical collections; for hitherto the diamond had not been found in its natural hed, but de-tached from it, and in alluvial soils. The researches of chemistry having led to the discovery that the diamond is only crystallised carbon, attempts upon attempts have been made to produce it artificially, but one of the greatest obstacles to success with chemists, was their ignorance as to the changes which the diamond undergoes from its first formation until it assumes the state in which it is found. This discovery of the gem in its natural bed, will perhaps enable chemists to add to their knowledge of the means by which the carbon of which it is composed becomes crystallised.— M Bravais made a communication relative to barometrical and thermometrical changes in high latitudes in the absence of the sun, shewing that with a very feeble variation of the thermometer that of the barometer is conthe holy writings, whence we infer the non-

candles called boujie de l'étoile was read. These candles are a composition of stearine made very hard, and reduced to a perfect whiteness. The wick requires no snuffing. An alarming paragraph, appearing in nearly all the papers, asserted that the quantity of ar-enic contained in the candles was so great as to be seriously injurious to health, by inhaling an air impregnated with poison; but M. M. Danger and Flandin, who have analysed the baupe de Petoile, report to the academy that they have not found in it the slightest trace of poison.

PERISCOPE OF THE WEEK.

On the Decussation of Tibees at the base of the Brain.-M. Foville points out, what all admit, that the extent of the decussation of fibres commonly demonstrated between the corpora pyramidalia is not sufficient to account for the completeness of the paralysis of one side of the body when the other side of the brain is impaired, "There is no proportion as to size, between their discussating fibres and their point of origin, the crura cerebri, or their termination, the anterior fisciculi of the spinal cord." He has succeeded, however, in demonstrating "a decussation at the commencement of the spinal cord, not through an extent of a few lines only, or by only a small number of filaments, but through the whole distance which separates the basis of the crura cerebri from the medulla spinalis properly socalled."-The anterior columns of the cord, when arrived at the medulla oblongata, separate from the middle line to give place to the corpora pyramidalia, and at the level of the tuber ascend and pass at right angles over the uppermost of its ares. The posterior columns on the other hand pass outwards from the apex of the columns going to the crura eerebelli, and leave exposed the anterior fasciculi, which are then visible behind through the whole length of the floor of the fourth ventricle, and along the aquaductus sylvii to the infundibulum. - The crura cerebil, for their part, form, from above downwards, a section of a cone, of which the fibres, instead of taking a straight direction, are turned spirally, and successively approach the median fissure into which they penetrate and plunge into the innerpart of the anterior fasciculi of the medulla spinalis. The fibres from the right crus thus pass into the prolongation of the left anterior fasciculus, and rice versa. Alon≌ their course, the crura constantly giving off fibres which pass thus from one side to another, gradually grow thinner, and at their exit from the tuber they constitute only the base of the anterior pyramids. The same circumstances continuing they become finer and finer, till their very apiees decussate at the boundary between the medulla spinalis and medulla oblongata. The transference of all the elements of the crura cerebri from one side to the other of the nervous axis is thus completed .- The mode of demonstrating this arrangement is to separate the two lateral portions of the nervous axis from the apex of the calamus to the infundibulum by separating the borders of the median grove. When this is done gently, each half may be seen to furnish an infinity of tibrous fasciculi of various size, which pass across the interlacing with each

SCARLATINA.-Like rubeola and variola, scarlatina is a native of the East, first made known to us by the writers of the Saracenic school, and transmitted to Emope by the Crna disease analogous to searlet fever appears in patient.

existence of the disease in Syria and Egypt at the period which those writings describe, and its consequent origin at a posterior date. It is possible that the disease may have been prevalent in India previously to this time, and that its outbreak in Assyria may have resulted from the transporation of the infection by the winds. But, even if by this argument we shift our arena of inquiry to India, we must eventually arrive at the commonly received opinion, namely, the origin of the fever in a local and unknown cause. The infection of scarlatina is an acknowledged axiom, and the infecting distimee is undoubtedly considerable, although not determined by observation. It is communicable by fomites of every description, hence the greatest caution is necessary to be employed in regard of articles of clothing which have been used by the infected person, and also of substances of different kinds which have remained for any time in the infected atmosphere of the sick-chamber. By want of cantion in these particulars the spread of an infections disease is greatly increased during the prevalence of an epidemy. Searlet fever is sometimes conveyed from the chambers of the rich to the dwellings of the poor by such fomites; and, on the other hand, the clean linen of the laundress may be the means of transmitting the infections poison to the persons of the sound. Searlatina is infectious from the first moment of the existence of constitutional symptoms, for these are the workings of the poisonous ferment; and a conval scent is capable of communicating the disorder for at least three weeks after the decline of the eruption. Hence the necessity of secholing your patients, and preserving strictly that seclusion for a month after the close of the disorder, that is, if you wish to limit the propagation of the fever. In cities the body-clothes and bedclothes of the patient should be immersed in cold water as soon as they are removed from the apartment, and afterwards funigated in an empty room with chlorine; while, in the country, the clothes, after immersion in water, must be dried and thoroughly aired in the meadows, at a distance from habitations, or in such a situation as will enable the winds to convey the noxious poison away from the immediate seat of human residence. Willan has stated his belief that a nurse who had received the vapour of the lungs, the phlegui from the throat, or the discharge from the nostrils on her clothes or pocket handkerchief, is in a condition to infect a child whom she may afterwards attend or caress. Dr. Sims has remarked that the infection of scarlet fever has remained in the apartments of the house for several weeks after the family had recovered from the disease. And Dr. Robert Williams reports the statement of Dr. Cock, that he had traced the irruption of scarlet fever in St. Bartho'omew, during the years 1829, 1830, to a direct importation of fomites: for a family who had suffered from the fever during their passage from America, landed at the island and communicated the disease to the persons who received them. Dr. Murray, in like manner, referring to the prevalence of an epidemy in Aberdeenshire, observes that he had seen several instances in which midwives conveyed the scarlet fever to the patients whom they attended. - The contagion of scarlatina has been illustrated by experiments made with a view to induce a milder form of disease than that which commonly prevails These experiments have Leen unsuecessful in their object, but have furnished proof of the tran-missibility of the disease by saders. No recount, says Mr. E. Wilson, of the inoculation of the blood of the infected

A NEW METHOD OF ADMINISTERING QUININE. Dr. Guastamaechia's method of avoiding the disgust which the bitterness of quinine always excites, is to dissolve eight grains of the sulphate in half an ounce of rectified spirit, and rub it, in two doses, with an interval of a quarter of an honr between them, along the spine. In intermittent fever this should be done at the beginning of the cold fit; and it very often prevented even a single recurrence of it.

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COURSE OF LECTURES ON THE DIAG-NOSIS, PATHOLOGY AND TREATMENT OF DISEASES OF THE NERVOUS SYS TEM

By MARSHALL HALL, M.D. PRS, Pellow of the Royal College of Physicians, London, ve., ve.

of ECTURY IV , Definered Decomber 2, 18th :

(Continued from page 214.) I must now allude to a case of water-stroke, which comes on sixteen days after the mildest cases of searlating. I am a little afraid of generaliting too much, and I only tell you that I have observed this to be the case especially about this peri 1 or time after a mild case of semilatina; if dis a say. often that kind that least on mention of that the case would prove faital. I never alter a case of scarlatina to escape from my observation, for when it has passed over-when this period has passed-you have the acute form of dropsy, which is fatal ufter sixteen days, or thereabouts. The child has all on a sudden a swollen state, the face is pallid: look at the uncles, you see that they are swellen, and if you examine the urine you will find it albuminous. When therefore in this state of things you have the inflammatory dropsy, one remedy I should give is the remedy of blood letting. I just wish to make one remark or two on that character of dropsy generally preceding disease, for searlating is not totally of an inflammatory character. The case I take is one in which the disease had reached the character of a fever. If it is not inflammatory, it assumes the other form, and I need not tell you that this character is rather adynamic than inflammatory. Well then, under the influence of this disposition to dropsy. and this albuminous urine, you may have first of all the water-str ke, in the second place anasurea, and in the third place peritonitis. I was called a few years ago to a case of this kind at a school. The little boy was 13 years old, he had had a convulsion in the morning, and in the evening his face was swollen. When I got there I observed brandy and water on the table-with this particular object-I believe the symptoms before they got it were those of a collapse, or resembling a collapse; they thought the child would faint, and therefore they thought they would give it brandy and water. It is important to see the first change; this change is very different to the second or third. When I got there the child was in violent convulsions; the both r and mother had just arrived, and the child was perfectly unconscious of them. We had one consultation, there were three medical men, and I said, "I know of nothing to relieve this child except blood-latting. I need not tell you that there was a little startled feeling at this proposition, because I found they were under the impression before of the necessity of brendy and water. I

isid " place the child apright, and open the jugal in vein and let blood until an effect takes place. There was a little opposition from the father, but I said " I only recommend blood-letting, I only recommend what I believe to be the only remedy." He said we had been sent for in order to try our he (effort and therefore he would leave the child in our hands. We opened the jugular vein, and took 130× of blood, and there was no chance at all. The child was raised upright, and kept in that position, and we determined not to go on any further, so the year was field up. I aid "I am not estistied, we will open a vein in the arm," We did so, and we took 2 haz, of blood. At the time we took this the pupil of the eye, which had been erce ively dilated, became natural; the child awoke from a dream, the concul ions cered, and, trange to any, he never had a bad symptom, nor do I I now that he wanted any other remedy. cut the matter hort, I believe he did not require are other remeds.

Now, in the the splace I have just aid that bloodletting is the only remedy; then in the second place I wanted to see to what an estent I could proceed, because that child was only 10 years of age. We see that the loss of Baz, of blood swhich is an extraordinary quantity-had the effort of subduing all the symptom of the disease, and leaving the child perfectly well. That couly further to remail that there were none of the symptoms that usually follow the extreme has of blood. I conclude with the remail, that I have always formed, that y hou the disease is such as to require the patient to hear the loss of blood, there is no effect, except that which arises from the state or sympope, which comes on with the untal symptoms which we know to be the consequences.

I must now proceed rapidly in a school affections I alluded to in the first ketting main? to the hydrocophaloid diseases. You will be some time called to children who, slowly and gradually glide into a state of hydrocephalis. I was called to such a care the other day. I applied beches, and gave medicines: I thought the child was doing well, but I linew there was hydrocophalm, and I expected to see the irrual symptoms, and certainly they were. The child was in a state of half-topor -the eyelids were gaping-and there were all the slighter symptom: of hydrae phalus. But I observed the checks were exceedingly pale, and the lips perfectly bloodles; and I said to the practitioner, " do you not think this may be the opposite state to hydrorephalus, namely, the state of bloodlessness?* We found that the limbs were cold, and that the face was cold, and I strone ly suspected that there was brombitic or some preceding disease. There was a sort of exhaustion; on applying medicines, there was a second sort of on applying medicines, there was extreme para-exhaustion; and then there was extreme para-lysis. I said, "The will recover if you let me just have remains at an important nature." I said, give remedies of an important nature." I said, "We must give brandy and water;" for I telt more and more persuaded that the case was one which rendered it important to give brandy and water. We gave the patient three drops of brandy and three drops of salvolatile every half hour. The child's eye no longer gaped; he went fast asleep, and when he awol e he was in a state of comparative health. We went on with the remedies, and in a few days he was perfectly well.

What, then, I have further to say in concluding this subject i , it you are called to timese cases you inquire whether there are tuberenhous diseases in the family, especially a disposition to hydrocephahis; and you must watch the symptoms. You must inquire us to preceding disea e; for if there has been bronchitis, by applying bookes and parmay be a state of a load stand feet are cold. If party of the state of the hands and feet are cold. If party observing the state of the hand, and feet are cold and the same congestion, and with the at gative medicine - daily, you may hope that there

the frequency of the pulse, and connecting these symptoms not with the symptoms of the existing diserse, but with the preceding disease, that you tiam your diagnosis. You may, cord with brandy and salvolatile. You may, therefore, pro-My next abject is that of spasmodic action in

the fourth lecture, and the number allotted to me

t 10 or 11 - so f can, therefore, only touch on

children.

You will observe, I have already got to

this adject especially as they are more concerned with children than adults, I ought to touch on them very briefly. Now, with regard to spasmodic affections in children. They may be either centric or consultie, that is to say, they may be connected with some disease of the brain. For instance, they may occur in hydrocephalus: in the course of hydrocephala; there may be large tubereles or tumor within the brain, and of course I need hardly tell you that the diagnosis is most importand, but by fir the greatest number of spasmodie diseases are of an excentric character, and depend on the irritation of three parts of the system. First there is the state of teething, in the second place indigestible matter in the stomach, and in the third place morbid matters in the large intestime. One part of the disease in children I take to be the mild form of convul ive affection. One of the most common effects is that the thinnb is drawn into the centre of the band, the toe is drawn into the sole of the foot, and there is a little grinding of the teath. Very often I have seen these symptom and nothing else. I have seen nothing but a contraction of the thumb and the roe, and a little trabisions, and nothing else. That eseen a grinding of the teeth and nothing else; (with regard to the crowing inspiration, I want you to obthe phesodogy here, the is nothing but a disin a constant of the first test of the constant of the constan violent convultions. What are the essential differences between the crowing? They are only these, -where there is a partial closing of the larynx, and where the appriore of the Larynx is absolutely closed, and whatever the effort made, there is no power of inspiration or expiration. You then see the patient in a state of struggling, something like being strangled: the countenance is flushed, and you may be sure that state is indicated by the countenance. You have, first of all, in spasmodic affection, the closure of the thumb in the palm of the hand, and the contraction of the toe in the sole of the foot. These symptoms are but evanescent You observe another thing-a state of instant strabismus, and you must eatch the first symptoms. When the child is affected with strabismus, you see there is a disposition to it, so that a fittle thing will excite it, and in a moment it vanishes away. The same may be said with regard to some of the other affections, but there is nothing more interesting than the grinding of the teeth: that takes place at another moment, and is altogether peenliur. I have found that out of 12 such cases 11 the have taken place during sleep; in another case crowing inspiration comes on, in 19 out of 20 cases during sleep. The reason of this I do not know; but that the disease predisposes to spasmodic affection is a fact I am perfectly confident of. You are very often called to a case of crowing inspiration, and before you get there, the child has awoke, and you find that all you have to do is to watch the idenomena. I have said nothing in this description about the

state of the brain, but I have this one remark to ranks, and that is, whereas in hydrocephaloid disears the first symptoms are cerebral, and the second spinal; so in this care the first are spinal, and the a and cer iral. For what hap-

congestion of the brain. You have probably effusion into the ventricles of the brain, and then you have the second stage of hydrocephalus. It comes on under peculiar circumstances, and is not tuberculous. If you are called in under these circumstances, and you do not hear the history of the case, you may be uncertain whether the convulsive affection is primary or secondary. Nothing is more important to notice than, whether the symptoms be primary or secondary. The affection of the brain may be what is observed in hydrocephalus, but it is a secondary case. You will inquire particularly as to these phenomena, whether there was affection of the head, and then spasmodic affection, whether the affection of the head came on first, and then the spasmodic action. In some cases of congestion of the brain I see no reason why blood-letting should not save the patient from a state of jeopardy.

I now come to speak respecting the morbid anatomy. Here you see very little of the morbid anatomy. The only thing you observe is the state of the blood vessels, and the effusion in the cavities of the brain, on the surface of the brain, and at the basis of the brain. The most important object, just now, is the treatment. It is so for various reasons: in the first place, because I think the treatment some years ago was diametrically opposite to what it ought to be, and because I think the treatment I should propose to you is in the early stages of the disease only calonel. The time was when all these cases were treated with calomel. You will see in the work of Abercrombie, on the diseases of children, that in the erowing respiration and similar affections of the respiratory organs and some cerebral diseases the treatment was calemel. There is a treatise on the subject by the late Dr. Davy. The truth is, that the doctrine of the reflex function did not then exist, and, therefore, the disease could hardly be said to be understood. I invariably observe this done, namely,-in one case, freely lancing the gums; in another case, freely evacuating the stomach; and in a third case, freely evacuating the intestines. I have known a ne-glected state of the teeth to lead to these convulsive affections; also morbid crudities in the stomach, and a morbid state of the intestines.

I have been endeavouring simply to point out the causes of these affections, to which remedies may be applied. My remedy invariably is one that has never failed, and I have, therefore, been confirmed by subsequent experience in the truth of what I am now saying. What I would do is this: the gums should be lanced every day. Now there has been a good deal of contention about this; but I will give you an idea why I propose to lance the gums. It is not that the teeth may come through, because the teeth may not very often come through, but I am persurded from what I have observed that there is a state you can only compare to slight inflammatory action in the gums during the whole time of teething. You have never perhaps happened to place your hand on the epo-gastrium; if you do, and find an indication of the heat of the blood itself, the idea is that there is a sudden state of inflammation, and I suppose something of the sort takes place in the case in which the teeth are growing in the gums. Now I am persuaded in another case that the lancing of the gums has done good. And why do I think it has done good in these cases? I have found inflammation in a state of dentition, I have repeatedly ordered the gums to be lanced, and I am perfectly sure that it has had a good effect; but long before the teeth have come through, there is no question, if you lance the gums, particularly it you first of all relieve the teeth, and then you let a little blood, but that you relieve that state of overaction in which that inflammation exists. That is the reason why you should lance the guins The next thing to be attended to is every day. the state of the stomach. You should give a few grains of ipecacuanha in order to produce vomiting. You should pass thids through the stomach first, as it is desirable to have an abundance of fluids through the stomach, and then apply the ipecaenanha, in order to produce excessive vomiting. In order to lose no time the next thing is to have the intestines washed out with warm phobia.

This is one of the simplest remedies, and the most natural. I do not say you should trust to this, but I think it is important it should be done. Another reason why I think this an important remedy is, that warm water removes the morbid contents of the intestines, and when they are relieved, further medicines are unnecessary. The next thing to attend to is the diet. You should give that most adapted to the age of the patient. I generally, if the patient is young, recommend asses or cows milk diluted, and I would recommend the thickening of it with barley, or something of that sort. I would give one remedy, because, if you give several, they may not agree with the stomach of the patient. If you imitate nature, you are most likely to supply the stomach with food suited to it, and you should only give that, and nothing more. Unless you pay proper attention to the more. Unless you pay proper attention to the stomach in this way, you may not be able to determine what is suited to it. This thing should be done day after day. Another important thing to attend to is this:—It is known that the crowing inspiration is produced by the prevalence of the north-east winds; what does this lead you to do? To be exceedingly careful not to expose the child to the impression of the north-east winds, and to adopt those measures of prevention which would render it safe from any fresh attack from that cause. This should be continued for a considerable time, as a child in the case of the crowing inspiration, is exceedingly liable to have it again. I must mention another point, that is clothing. The change of air is most important, and I have known a child taken to a different atmosphere, cease to have the crowing inspiration. This has been frequently the case; and when the child has returned home again, there has been a return of the convulsions. There is a most interesting case the convulsions. There is a most interesting case detailed by Mr. Henry Marsh, of Dublin, in which the child had the crowing inspirations; it was taken out, and it got well, but when it was brought home, the crowing inspiration returned. I have just one final remark to mide. I told you that hydrocephalus was a family di case, and, strange to say, this is a family disease. There is more danger of receiving it after the child has had the crowing inspiration. In some it has gone on to violent convulsions, and, in several in tances, these convulsions have proved fatal. One of the most important results is the great expansion of the hest, and the enlargement of the thyroid gland. Now, the first thing to remark, is the effect on the countenance and on the brain produced by violent convulsions. I do not imagine that it produces the effect we see on the countenance, congestion of the brain and enlargement of the thyroid gland at the same time. But I imagine the thyroid gland becomes enlarged from the effect of the convulsions, just as the brain is affected. It is important to have this in view; for if strangulation is the result-if it tends to this effect-you must come to the conclusion, that little can be done for it. 1 say I have never yet seen; my one of these cases, in which I have not early in the disease, ordered the gums to be lanced daily, the stomach evacuated, and then given doses of medicine. The most important thing is, that the bowels should be kept in a proper state daily with warm water, and the little child protected from the north-east winds. 1 must not go on with the subject of diseases in children, because 1 mentioned just now, that 1 have a given number of lectures to give on the subject in general, and therefore it may be better to begin forthwith with the diseases of the brain in adults.

Prophylaethe The Treatment against Hyperophobla.—At a recent meeting of the Sheffield Medical Society, Mr. W. Jackson suggested the propriety of subjecting every person who had been bitten by a rabid animal to a long though mild course of mercury. He would keep up a mercurial action for at least three months, in the hope that the mercury having thus obtained possession of the system first, would prevent the occurrence of hydrophobia.

PRACTICAL OBSERVATIONS ON THE NATURE, PECULIARITIES, AND TREATMENT, OF SOME OF THE MOST PREVALENT DISEASES, &c. CONNECTED WITH THE POPULATION OF NORTH CHESHRE, AND SOUTH LANCASHRE, EMPLOYED IN COTTON FACTORIES.

By Charles Cla. Member of the Royal College of Physician. I in don, College of Surgeons. Eduburch, and Lecturer on Mode at Jansproduce and Medical Police, Manchester.

CHAPTER III. FROM THE TIFTEUNTH, TO THE TWENTIETH, OR TWENTY-FIRST YEAR.

ALTHOUGH the space of time herein-named is short, it is nevertheless quite sufficient to present the enquirer with as numerous a list of diseases as any other epoch of life, though of much longer duration. It is at this time, many fatal diseases, which commenced their attack in earlier years. progress towards a fatal conclusion; and, it is at this time, also, more than at any other, that we are compelled to acknowledge the hancful effects of this peculiar employment on many constitutions that are exposed to it; whilst the high temperature, in which they are confined, causes numbers of blanched faces and weak constitutions from oft repeated attacks of menorrhagia. The constant and sudden changes from heat to cold, and from moist to dry, induce an equally numerous class of suppressed catamenial secretions; many cases of menorrhagia, are to a surprising extent; indeed, it is difficult to account for their being able to follow their employment in some cases, from the extent of the discharge, but the dictates of necessity are stern and uncompromising. In treating menorrhagia, it is almost useless to prescribe, without, at the same time, insisting on a cessation of employment; by the simple accomplishment of which, namy cases are immediately checked. As many cases of suppressed menstruation are evidently from debility, I have succeeded best in restoring the normal appearances by the exhibition of tonics, such as the tr. ferri, mur., but more particularly the nitrate of silver. Perspiration, another secretion (or rather exudation), suffers materially; when carried to excess, it at once reduces the system rapidly, cough and free expectoration follow, and the case ends in consumption; otherwise the skin is unnaturally dry, the mesenteric glandstake on disease, obstinate constination, and indigestion follow-the sure forerunners of fatal atrophy. In these latter cases, tonics are again indicated, combined with the poculiar action of preparations of iodine very carefully given, and closely watched; and occasional soreness of the gams, produced by giving very small doses of calomel in rapid succession,

There is a strong analogy between the cases of adult atrophy and those of marasmoid children: and as the tepid bath, with a small quantity of of, terebinth, in it, has a magical effect on the latter, I have been induced to try it on the adult; and, although the trials have not been very numerons, they have been very snecessful. Phthisis is extensively prevalent, and there are but few exposed to its attacks who recover. After long observation, I feel certain that there is a strong connexion between this disease and scrofula; as most of the eases of phthisis (particularly the fatal ones) can often be satisfactorily traced to have had extensive scrofulous disease, in early years. Much has been said of late on the "Curability of Con-If, by such is meant confirmed phthisis, sumption." a wider field for practice cannot present itself, than in the manufacturing districts, to make good any such doctrine, or to furnish sufficient means to prove it a fallacy. At this period of hie, scrofula s not so much seen as in earlier years; it having given way, or terminated in some other disease, In common cases of constipation of the bowels, much may be attributed to the articles of diet, such as cheese of very inferior quality, baker's bread, containing alum, and common tea and coffice, much adulterated, forming the chief articles of consumption; so that if the bowels are not otherwise predisposed to disease, they are almost certain to be much confined. Hemoptysis, hamatemesis, and epistaxis, occur frequently; the two former connected with other diseases of longer standing-the latter as a substitute for menstruation. Simple chronic debility can scarcely be considered as specifically attacking any one portion of these individuals, but is, in reality, the features of the whole factory community. I may just observe, in reference to it, that females are subject to syncope, often of an alarming character. Lencorrheal discharges are very common, and very difficult to arrest (if not impossible) during the continuance of the occupation. Zine washes, with tonies, are most effective. Fevers are very prevalent, particularly the typhus, often produced by neglected attacks of the simpler forms of fever. In the treatment of typhus, venesection (that vaunted since qua non of many) is, with these constitutions, so employed, and in such locality, almost inadmissible; very few, indeed, can bear the lancet; and whoever patronizes it (under such eircumstances). will have good reason to regret its use. The result of the bleeding practice is evidently more fatal than the sudoritie, or other simple treatment. The stamina of this class will not bear the lancet, and persons seldom recover when bled in typhus. Some local affections are prevalent, such as bronchoccle, morbus coxe, spinal curvature, ophthalmia, &c. Diseases of the skin are not so frequent, as in earlier life; and less so, in females, than in males-probably, from their being more careful in guarding against emptions of a contagious nature, Inflammatory attacks are common, often the consequence of checked perspiration: the most con-mon are hepatitis and enteritis—the latter often followed by long and obstinate diarrheas. I have already (in the last chapter) spoken of early conception, the effects of which are observable at this period, making the females look old before their time. The facilities of child-bearing, although strictly in connection with this chapter, will be considered in the next.

CHAPTER IV. ADULT FEMALES,

WE now come to consider the effects of this employment on females, at the adult period of life; the diseases to which they have been, and are at present, subject; and here, if any doubts existed as to the injurious effects of factory employment, they would be entirely dissipated, by the numerous circumstances that now are too evident to be mis-The debilitating influence is here fully exemplified, by the frequency of abortion, menorrhagia, floodings, excessive leuchorrheal discharges, anasarcous legs, varieose veins, hæmorrhoids, prolapsus ani and uteri, diarrheas, general debility, and easy parturient efforts. With regard to the last item, it is a remarkable fact, that difficult labours are (comparatively with other classes) estremely rare. For this, two reasons may be assigned—1st. The females marry when very young; 2nd, Their constitutions have a laxity of muscular fibre about them, that evidently tends to facilitate labour; and perhaps two more may be added, their labours are often premature, and even when at the full period of gestation, the children 'are generally smaller than the average size. To this numerous list of maladies, others might be added which arise from the debilitating effects of those diseases already enumerated; such as flatulency, anorexia, acute and chronic rhenmatism, fevers, ascites, &c. &c. Puerperal fever is by no means rare, and more or less fatal in proportion to the use of the Lancet; I have invariably found bleeding injurious with this class of females. In all forms of rheumatism, I have found the free use of the sulph, lotum, with carb, sodie most effectual, as recommended in my paper, supporting the views of Dr. Munk on Angina Pectoris (see Lancet, vol. 2nd, 1839-10, page 783; and vol. 1st. 1840-41, page 417).

For relief in prolapsus uteri, so prevalent here, I was anxious to contrive an instrument to support the nterus, without stretching the vaginal canal beyond its normal dimensions (the fault of all the old tribes of pessaries, which increase the evil sought to be remedied (see my paper read before the British Association, published in the MEDICAL TIMES, 1842, Vol. 6, page 188); and, although I succeeded beyond my most sanguine expectations, I still regret being mable to bring it within the reach of the working classes, as to price, being compelled to have the whole pessary made

of either pure or German silver. From the prevalence of varicose veins of the legs, I was desirous of affording some relief of a more permanent nature than is generally practised in such cases; and, I resolved to try the plan of operation by Vienna paste, as proposed by M. Laugier of Paris, which operation I had the honour of first introducing into English surgery in 1839 (see Lancet, fivepapers during 1839-40-41-42). After the most decided success in no less than fifty operations (and one which failed), I am convinced that it is the most effective means of curing these obstinate cases, and may be practised (more generally than it is) with advantage. In this same class, from the effects of debilitating employment, I have witnessed a greater disposition to uterine hamorrhage after parturition, than in any other; but it has been much more rare, since the introduction of the Ergot of Rye into medical practice. character of lencorrheal discharges is often extremely virulent, accompanied with extensive excoriation, vaginal relaxation, and protrusion of the uterine mass; these persons so affected drag on a miscrable existence, not being able to relinquish their employment for a sufficient time to establish a cure, and procure means necessary for the correction of the diseased functions. Indigestion in all its forms is observed extensively; to which their bad habits, and inattention to diet and domestic comforts, contribute an equal quota, with their confinement and employment. During the period of suckling, mothers are very liable to inflammatory attacks of the manning, in consequence of the milk being pent up so many hours, and the frequent exposure to sudden and extreme changes of temperature. to the adult period, bronchoede-becomes more apparent, probably from less precantion to hide it. It is, however, decidedly more frequent in hilly districts, and more properly attributable to the water of the neighbourhood and atmosphere, than employment. Asthmatic affections are frequent among that class of factory workers termed card-room hands. The general characteristic appearances of this class, are, pale, sallow, thin faces, bloodless lips, and emaciated bodies, looking at least ten years older than they really are; and having had no opportunity of learning domestic management from their early introduction into the mills, they are generally very bad economists, bad managers, and make very indifferent wives for working men.

LECTURES ON CHEMISTRY.

By JOHN SCOPPERN, M.D., Lecturer on Chemistry, at the Alderstate School of Medicine,

In accordance with our sketch of operations given in the last lecture, the first ponderable body we shall bring before your notice is oxygen, which was discovered by Priestley, or at least distinguished from other bodies, on the 1st of August, 1774. He termed it dephlogisticated air, on account of some imaginary property in regard to the much spoken of but imaginary principle, phlogiston. Scheele subsequently termed Aempyreal air, and Condorect, vital air, because he remarked its property of supporting animal life. The term oxygen, as I have already remarked, was given to it by Laveisier, and the other French chemical revolu-tionists, a term derived from two Greek words signifying acid, and to generate. When this name was first proposed, philosophers imagined that the substance under consideration necessarily existed in every acid, being in fact the acidifying principle. It is hardly possible to recognise at a glance the nnmerous fallacies in chemical nomenclature, which derived their origin primarily from a belief in the universal acidifying properties of oxygen; to change this nomenclature however, would be now impossible; therefore, we must be content to accept such terms as that under notice, with all due and necessary limitations. Oxygen, if we regard it in a simple and a compound state, may assume the form of solid, liquid, or gas. As a solid, we find it in combination with metals, forming a class of bodies termed by chemists metallic oxides, and which in common language we designate by the terms turnish, or our, also in numberless other instances. As a liquid we find it in the well known decomposition may be thus represented;—C! O's

fluid, water, besides a multitude of other compounds. Gaseous compounds containing oxygen are just as immunerable; carbonic acid, or soda water gas may be mentioned as an example. Al-though we find this substance then, in each of the three adhesive states yet in its most simple or uncombined form, oxygen can only be obtained as a gas, the processes for obtaining which we will mention hereafter.

Of all the fifty-five simple bodies, exygen enters most largely into the composition of this world and its inhabitants, animal and vegetable, a fact which cannot fail to awaken feelings of wonder and admiration at the remarkable power of chemical agencies to after the conditions which characterise certain bodies in their simple or undecompounded state. These speculations, however, you will be the better enabled to enter upon, when you shall have learned the properties of oxygen. We will now proceed to demonstrate roughly the amount of oxygen entering into the composition of this globe. First of all, then, let us take cognizance of the water; at least three-fourths of the surface of the earth is covered with this thid. the average depth of which has been so variously estimated, that I shall content myself with observing that it may probably amount to three miles, now every eight parts out of nine by weight of water, are oxygen. The crust of the globe, according to De la Beche, consists of 45 per cent, of silicic acid, a substance which contains half its weight of oxygen, and the remaining fifty-five per cent, is made up for the most part of substances rich in oxygen also; therefore on the lowest possible calculation, we cannot reckon the quantity of this substance in the crust of the globe at less than one-third, Again, every 23-100ths of the atmosphere are oxygen and every 8-9ths of atmospheric vapour. We last of all come to the inhabitants of this globe, both animal and vegetable, all of which contain oxygen, both as a constituent of their own proper tissues, and of the water which is always united with them, and which is necessary to the very existence of life. Now the result of the lowest possible calculation from these data is, that at least three-fourths of this globe, with all belonging to it, are oxygen in one form or another, a fact which demonstrates pretty clearly the important functions which it has in many ways to perform.

Oxygen may be obtained in many ways, not however with equal facility or equally pure. For delicate chemical experiments, it is usually prepared from the chlorate of potash, by distillation, or from distilled water by the agency of galvanism. In order to obtain it from the chlorate of potash, a little of this salt should be placed in a flask, or retort made either of Bohemian white, or English green glass; English white or flint glass does not answer for this purpose, being too easily fusible. English green glass, that is to say green glass containing no oxide of lead, is remarkably infusible, and therefore becomes applicable to this, as well as many other similar purposes; but it is exceedingly difficult to work, and therefore there has been of late found in the shops a green glass certainly, but merely common white glass, coloured green by some easily fusible material; this latter kind may be easily known by the ease with which it is scratched by a file. The chlorate of potash being inserted as described, join on a bent tube, and cork it if a flask be employed; if the contrary, immerse at once the beak of the retort under water in a pneumatic apparatus, the flame of an argand, or of a spirit lamp being applied to the salt, will liberate oxygen in abandance; of course the first portions of gas in this as well as in every other case of distillation, should be rejected, because it is necessarily contaminated with atmospheric air.

The theory of this decomposition is very easily understood. Chlorate of potash is composed of chloric acid, and potash; chloric acid of five equivalents oxygen, united with one chlorine, and potash is made up of one oxygen and one potasium. On applying heat, all the oxygen is given off, and chlorine united with potassium, or chloride

yield Ct K + Ob. Oxygen gas may also be obtained from intrate of potash by the same process. and substituting nitrogen for chlorine, the theory of the decomposition will be intelligible. When oxygen gas is required in large quantities, with only a moderate degree of purity, it is usually obtained by heating the binoxide of manganese in an iron refort; a gan barrel an wers the purpose very well, or a wrought-iron mercury bottle for larger quantities; the binoxide may be purchased either in the state of impulpable powder or minute fragments-either answers equally well for preparing oxygen. By this process the gas is rendered in Gry large quantities, but of greater or less impurity: -till, however, it will answer for the majority of purposes to which this greats applied in the arts. The theory of the decomposition here taking place is very simple; there are four com-pounds of oxygen with manganese, decoid of acidity. They stand thus :-

Mn. Oy.

Now, on heating the binoxide to reduces, in the process just described, half an equivalent of oxygen is given off, and the seconicylide remain . In asmuch as this process requires as iros bottle, condueting tubes, and other heavy and expensive apparatus, other processes for obtaining oxygen may cometimes be de irables. It may be climinated from the same oxide of many mere, la mising the latter with allpharic acid to the con i tense of a soft magna, and heating the mixture in a old re tearf This plan, however, doe not yield the gas with fuellity (although nich would be indicated by theory), and it is altowabler incraw night. The theory of the proces, however, i introduce, and throws some le ht upon on important class of class mical decompositions; binomide of man and a i incapable of uniting with alphanic wide procesule of ninganese, however, none or ils. The mutual influences, then, of sulphuric and and time idemanganese are such, that the latter is decomposed, —one equivalent of oxygen being eliminated, and protoxide of manganes, being produced, which immediately units with sulphuric acid to focu protosulphate of many are . In exhabits this decomposition is thur inducted --

$M_0 O_2 + SO_3 \text{ yield } (M_1 O + SO_2 + O$

The difficulty experienced in obtaining over en by this last process on the come other planshighly de irable. Mr. Tark, of Woolwich, recommend a mir ture of equal parts, by weight, or binoxide of maneaness and chlorate of pora h, which, being put into a glass retort or I'l rence flask, will yield oxygen in abundance on the application of heat if on a parit lampor other our e of equal power. In Bilmain, of Liverpool, lea-mentioned another plan; he says, a mixture of three part bichromate of potestewith four part of common sulpharic soid, contained in a caperion retors will, on the apple atom of a moderate heat Co common para lampo, vield pure oxygen wide a rapidity entirely at the communal of the operation. This proce has for sometime been employed in the Liberatory of the P all Institution, and I the rationary of the result institution, and re-believe version covered by Dr. Par Say. The re-sults of this decomposition are equivelely of chrome, sulphane of potential decomposition.

There may be enumerated a vial other processes for obtaining even that I have an automed those which are chiefly had recome to. Let a nov proceed to investigate the properties gras.

It is in inid, colourless, and incolorous, perma-

its specific gravity is 1.127. Its refractive power for light, when compared with atmospheric air, ias 0.830 to 1000. It is evolved by electrolytic action from the positive pole or anode, therefore the reason of its standing amongst the anions is obvious, as also the reason of its being formerly termed an electro negative body. It is absorbed very spacingly by water—100 cubic inches of this fluid only taking up 3.5 cubic inches of it. It exerts no action upon littuus, nor upon turmerie paper, neither does it whiten lime water.

The most striking property of oxygen is that of its supporting combustion with great vigour, and of rendering certain sub-tances expable of burning which are usually regarded as incombustible. Then nery be remarked the wide range of its combination, and its property of acids; he thy its power of upporting animal life.

In order to demonstrate the remarkable probuttion, I immerse into a bettlefull of it, a taper, the flame of which his been extinguished, the wick merely remaining red hot; immediately the taper becomes re-lighted, and burns with remarkalde brillianes.

Next Limmerse a piece of charcoal also in the date of dull ignition, but no somer does it touch the oxygen gas them it becomes brilliantly incandecent, and throw out parks in every direction,

Phosphorns and alphur also when immer ed in oxygen gas during their combaction, barn with a rapidity mercased to an extraordinary extent, particularly the former sub-tance. Nev: even certain bodies usually recorded incomba tible, as iron for in times, are expuble of burning in this ga . In performing this latter experiment, the iron wire hould be twined into a piral form, and inmer ed into the jar conteining o ygen, with a bit of ichited match, tastened to one extremity of the coil: combit tion proceeds with great rapidity, and m howly arrived to the control of the control of melted iron, the form every dire ii ii. Vial tome brige globale, gener lly, renemes attached to the end of the belieul This experiment is connected with a remarkable disput relation to the theory of com-

In all these instances of combustion, an union has taken place between onvigen and the substance burn d, realting has been de troped, no not the minutest particles to a cosual obsider, such may come to be the case, but a chemica, in tend of detraction merely so the production of colourlesgreet. It would be out of place for me to enter upon the consideration of all the abstances formed is the elexperiment : I am t content my elf with aving that The phorns, charcoal, and sulphur, form, by union with oxygen, sub-times which are our, which rold is Limit, and which, by uniting with another class of substance fermed by form the chow the source the character of an soid. Iron, however, by uniting with oxygen, doe not yield a compound endowed with these properties consequently the union together with others of a similar class, is demonstrated an existe. to remarkable in the part which expeed take in the chief phonomene. of combustion, that it has there will to be the only supporter of combaction: and the phonomenon has been defined the rapid union of Le be with oxygen," a definition which count be retained in the present day without ridating our moterrly received idea; for extople, we should be led into the absorbity of batting that combittion wield occur without tor and that there might be fire without earling. tion. The best definition for this phenous non code to be right clambed action, attended with the resolution of light and heat. I cannot some alled the abject of extern, without advertor to the experiment of birmine from wire, which experiment I sated to have a remarkable. ne ion with the theory of combittion. Such

gether lost. Now there are a few cases in which a body is increased in weight after being burned: iron, when burned in oxygen, is one-ecosequently this fact was no sooner discovered, than the theory of Stahl was discovered to be erroneous, in one instance at least; and just afterwards, pneumatic chemistry spring up, and the downfall of the phlogistic theory was complete. Lavoi ier in imagining that oxygen ga was the universal sup-porter of combustion, assumed that the gascons exvgen was compounded of actual oxygen and light and heat -the two latter being evolved whenever the actual oxygen united with a comba tible boils: but the amount of both heat and light depend as well on the nature of the body burned as the quantity of oxygen con used fide-d, there are many other objections to the theory, and in the present day all admit that it is incorrect, a must he every other theory which a sume oxygen to be perty oxygen gas no asses, of supporting come the only gas concerned in supporting combustion, The very terms combustible and appearer of combustion are unphilosophical; such distinctions being dependent altogether on secondary circum--tallion

> ERBATEM.-In latter part of last lecture for r -. to ant read "reponent."

CURABILITY OF CONSUMPTION.

Continued from page 21.

(To the Editor of the ' Me ii of Time .

ir.—In proceeding with the subject of extarrhal an's roas in their sanative relation to phthisis, I on tempted to unimalisert upon the culpable negligence, chargeable to most of the medical onions of our public metitutions, in their examination: of the history of disease, particularly that of Cut orth. To this, as much as to any other single can a, would I attribute the mistaken views enterrined and propagated on the incurability of consmaption. I have attended six general Lospitals and am unable to call to mind one instance in which the history of chronic catarrh was traced back to its commencement, and subjected to carefal and scientific analysis. We should not content ourselves with merely ascertaining the state of our patients a few months, or a few years buck, but if their cases be of long standing-as ancient as 20, or 30 years (and there are many such) .- it will prove advantagious to collect as much information as possible, relative to the circumstances connected with the tir-t stage or stages of development. It will be a certained, in numerous instances, that unequivocal signs of the existence of pulmonary consumption preceded the catarrhal invision. mo t di tinguished members of the assentiatory eghool are either decided advocates of the curarability of phthisi, or exhibit a strong leaning that way; and there is no class of phenomena. -phy ical, contitutional, or pathological, that seems to leave influenced their deductions more than that now underconsideration; and yet they have all overlooked nature's method of cure. If I could be led by mere authority on these points, that of Dr. Runndge would no doubt operate troughy; he hat had the rare advantage of more than twenty years large experience in consumption, his patients in the infirmary alone averaging 100 a week; has watched numbers of them from the commencement through the intermediate time; has vectived them in a state of phthick, and tracol it stradual or rapid meanthenes to exturb at an earlier or later period; seen them she of disease, non-phthisical, and examined their lunes &c. after death; but-

* North entre to journe charagistic."

I have seen and judged for myself. In company with my fellow pupils, I have had many a weary walk from one part of London to another, attend-It is in qual, colourbee, and incolorous, permission of the other contents of the first terminate all presents, and incolorous, permission of the contents of

of thickenings of the plema pulmonalts; disseminated black pulmonary matter; cicatrizations; pasty tubercles; and black oval discolourations marking the site of tubereles absorbed or softened and eliminated, &c. &c. These spots in some cases, when a section of the lung was made, were seen standing out in relief from the incised urface passed over by the edge of the scalpel; in other, the absorption was incomplete, and they were partially occupied with tuberculous matter; or various modifications presented themselves from the almost indistinct trace to the indurated quies-cent tuberele. It would be tiresome to describe the numeron canatomical minutice seen on these dissections. Holiday pathologists may overlook, but cannot avoid confessing them when demonstrated to their senses. The compatibility of chronic eatarth, with long life and tolerable general health is a matter of every day observation, but the very large proportion of cases, wherein the lungs are or have been tuber culated, cannot even be suspected, unless by person, who have frequent opportunities of antopsy, and direct their attention carefully to

The occurrence of catarrh at an early period in the winter, renders its own persistence probable, but its power over phthisis more decided; when in early spring, and the latter disease is incipient, or moderately manufest, time enough may remain to overcome it, and the bronchial irritation may be quite removed or reduced to a latent form by the genial temperature of the summer. Many patients escape in this way.

Old catarrhal asthmatics hardly ever suffer tuberenlous disease of the bowels, and its consequencediarrhora. When catarrh arrives too late to stay the course of consumption, if it proceed to the length of bringing on emphysema, it has the effect of preventing the diarrhoea, which so often protrates and cuts off the patient rapidly, and, as it

were, prematurely.

POLYEL, or any mucous intumescence in the nasal fosse, obstruct the free caress of air in expiration, and produce effects similar to those already described. A chronic thickening of the membrane of the nose may frequently be observed in children of a strumous habit, and the amount of obstruction from this cause or from catarrh, though apparently ив significant, rarely fails to operate as a check on the progress of pluthisis. The mechanical impediments presented by the presence of polypi are semetimes so considerable as almost to preclude the possibility of breathing through the nostrils, and rarely so slight as not to embarrass it in some degree. Persons who sleep with their lips closed, labouring at the same time under contraction of the posterior nares, or in whom the uvula or soft palate is preternaturally enlarged, necessarily make prolonged expirations, which, in consumption, cannot fail to have a beneficial tendency. I need not do more than allude in this place to the other morbid conditions of this vestibulary portion of the re-piratory apparatus, and its adjacent structures, such a hipus, ozena, disease of the antrum, congenital malformation, &c., which will all be found reducible to the same principle; they at times narrow the passages, and prevent the cary exit of the inspired air.

Uterine Hamorrhage, and profuse or 100 fivpoint bloodings from any part of the body, exercise intermediately, through the disordered state of the heart's-functions, or the structural alterations they superinduce,-a greater or less controll over the progress of consumption. Hemorrhoids and sanguineous fluxes from any part of the Portal system. incoorrhagia, epistaxis, hematemesis, and immoderate los of blood from venesection or accidental ! injury, are all followed by disturbance of the circulation at its centre, and tumefaction of the mucous bronchial membrane. Hemorrhages from the lung , -- the result of lesion in that organ, and, when protuse, indicative of an alarming state of pulmonary disease,-often form an exception to this rule: yet I have no doubt they may, under favourable circumstances, and when very moderate, if accompanied by blood-letting in small quantities often repeated, to lessen the vis a tergo, be either devoid of danger, or contribute, to a slight extent, towards modifying the character of the tuberculous progress or

manifestation. Dr. Ramadge, I should here men tion, is averse to the practice of venescetion ander such circum tances, as, indeed, are many of the most eminent practitioners of the day. I shall return to this question, in discussing the treatment of phthisis, as Fregard it by no means of secondary importance. I would here observe, that excessive vent action, or extensive loss of blood, from any cause, is in itself an evil of no common magnitude. The heart, like every other muscular part, give: way, and, as Corvisart expresses it, falls into a state of passive aneurism. أ Great care should be taken not to reduce it to a state of debility. W_0 may purchase benefits too dearly. The extreme to which renescetion was formerly carried in some of our hospitals, multiplied, not a little, cases of derangement in the circulation. I recollect, among many others, two remarkable instances of this in the Landon Ho pital, under the treatment of the late Dr. Robinson. Though very un accessful, no individual could be kinder, or more attentive, to his poor patients; but unfortunately he was always suspecting the vistence of dangerous affertions of the heart, and frequent, sometimes copions bleeding was his panacea. Susan Thomas, aged 30, of 14. Back Lane, St. George's in the East, was bled 50 times, whilst under his care. beth Good, aged 22, Queen Street, Tower Hill, was, by his direction, bled 57 times in the course of four years, had too leceles applied, and was repeatedly cupped. They both previously Induced the symptoms of puthisis, which the derangement of the eardiac functions had removed. but from the great loss of blood, they became excossively plethorie; a state of cerebral congestion, with frequent hemorrhage from the nose, stonach, bowels, and other parts, were the consequences of this treatment. He fell into Charybdis in the cuderivour to avoid Scylla. He had been surgion in a local milina regiment, and scenicd to forget, that hold military practice was not exactly applieable to civil life,-a fact I have verified by my own experience.

They to subjoin the description of a case of uterine hemorrhage complicated with phthisis as given by Dr. Kanadge in a letter to Mr. Keddell of Sheerness, who had sent the patient to town to have the benefit of his opinion. "There is old plithisical disease in the summit of both lungs. The want of clearness in the respiratory murmur is most obvious in the infra clavicular region of the right side. The right lung is more affected than the left. There is chronic disease of the left lung where it is in contact with the pericardium. Though the physical signs of phthisis are evident to me, yet the general or constitutional symptoms have never been well marked, owing to utcrine hemorrhage three years ago, which was exceedingly profuse. Dilatation of the heart followed, as well as i tumefied state of the bronelial nuccus membrane. Owing to the imprisonment of the air which always tollows such a change, the lower lobes have been preserved from contraction, and are in a state unfavorable for any new tuberculous deposit. The parts of the chest which require attention are the trachea, the summits of both lungs, and the region of the heart. The complaint which affects Mrs. H. is of a triple kind. There is consumption—masked and interrupted by broughial disease, and dilatation of the right side of the heart.

The foregoing opinion was given many months since, yet the kaly has improved to the satisfaction of all parties.

Discipulits.

(In he Confined.)

THE MAJOR COUNTERBALANCED BY THE Minor.—The late Dr. Babington remarked, "That medical men in general were too carelesas to the vehicles with which they combined active medicines; and that he had known many cases of affections of the brain and neryous system made worse by medical men ordering camphor mixture in place of plain water, with other medicines which might have done good. The camphor mixture had acted a stimulant, and thereby prevented sleep and rest, which were the objects most desired."

PUNCILLINGS OF LIVING MEDICAL MEN.

DE, CHAMLER.

An apology is perhaps due from us to this eminent physician for having hitherto omitted to introduce him in our pages. But our omission has arisen not from any depreciation of his merits, but simply because, however conpicuous be his professional position, he presents comparatively few points for remark. No one who ever held a rank so high in the profession, and enjoys a practice of extensive, can afford less scope for a sketcher while living, or can leave fewer materials for a biographer when dead. He is not one of those whose abilities, now shrouled by neglect, or repressed by misfortune, will be rewarded ultimately by time, and receive from a grateful posterity that recompense which envious or malignant contemporaries withhold. His is the present hour, and he has little to expect from the future. Carpe diam may be, as indeed it is, his motto, for the morrow will know him not. With an extensive field for research, he has written no work, enjoying ample opportunities for imparting information, he has implanted in no pupil's breast any record of his fame. Appropriated as an accomplished physician now, and rewarded by the most extensive practice of the day, he will leave no memorial bebind bim, and have as little claim to posthumous recollection. His career will resemble that of yesterday's sun, which threw out light and warmth in its transit, but to-day presents no shadow of its

But to descend from speculation to narrative— from contemplative anticipations to the prosing affairs of life—the subject of this sketch is, we believe, the son of a medical man, who not only enjoyed a competent practice, but succeeded in bequeathing the greater part of it to his descendant. The facility with which practices are thus handed down from father to son, forms one of the great inducements for a medical man to settle in the mercepolis. In the provinces a practitioner has little didiculty in finding immediate employment, he may even amass a considerable fortune, and this he may secure to his off pring, but not his prac-His village rival or some obscure stranger, will tep between his son and the desired inheritance, a consequence of the passion for novelty which generally prevails in rural districts. But the metropolis-a field so immense that a man, however great his abilities and exertions—is doomed, if a stranger, to pass the prime of his life in neglect, his whole existence may be spent in anxious inaction, and he may descend unknown and impoverished to the tomb. The cause? The public hospitals are closed to him unless he be possessed of claims by nepotism, sycophancy, or corruption If he succeed in entering their portals, his practice is established, and his son in most cases is sure of the chemosynary succession.

This sort of entailment is of course open to all the objections that may be urged against bereditary pecrages and hereditary barbers; for though it follows not that the son of an able man must be an ass, it would be as vain to expect a budding peer to wag his tongue, or an incipient barber to wield his razor, with all the practised case and dexterity of his progenitor, as to anticipate that the ability of the father will be inherent in the offspring; and by this kind of inheritance it is that the public hospitals are blocked up by the abortions that now so frequently distigure them.

Chambers is also indebted for his success to a number of those fortunate accidents which are often more conducive to success in life than the most consummate abilities. His relation (a nephew we believe) to the late Charles Grant was eminently serviceable to him before the sleepy days of Lord Glenely, and the death of old Dr. Warren, who lived in the same street, was one of those unmerited God-sends which occur to a few favoured individuals, and which give sunshine and case to the rest of life's voyages. A residence in the neigh-bourhood of some fashionable hotels has also been of use to him, Miyart's alone, it is said, having sent to him as many patients as St. George's Hospital, of which he sometime ago resigned the phyicionship. His practice is reported to be very lucrative.

Chambers, it is said, made a fortunate appeal to the apothecaries at the West End by the charms of his table. No prayers were necessary. cant was uncalled for; even grace itself, perhaps. wasdispensed with; he had only to assemble a dozen or a score of these worthies at his board twice or thrice a week, ply them heartily with wine, and presto, in their estimation, he at once became the prince of physicians. Esculapius himself, had he descended upon earth, and trusted exclusively to the strength of his powers, would have had no chance with him in so far as were concerned those worthy men who thus expected and received a good dinner to-day and a good dinner "the morn." They of course, in return, puffed the giver of these good things; for though the sulgar proverb declares that men's sympathies must be assailed through their heads or their hearts. wiser philosophers are of opinion that they may be more immediately enlisted by an appeal to their stomachs. The secret of charity-dinners lies solely in this; without the previous feed not a solitary sovereign would be forked out for "the sacred cause of charity:" and Chambers shewed his profound knowledge of the inner man by at once lighting upon the expedient. Nor let it be supposed that while alluding to the practice we are con-demning the man. Justice compels us to state that their recommendation was just, and that amongst all the fashionable physicians of the day it would be difficult to find one more competent for his post. His practice, though by no means profound, evinces a simplicity and a science which others of the profession would do well to imitate.

His appointment as physician to St. George's Hospital (for which, we understand, he was indebted to Brodie, or Sir Benjamin's uncle, Everard Itome.) also exerted no inconsiderable influence on Chambers's fortune, as it took place at a time when offlee in this aristocratic institution was a passport to fashionable practice. That it is so no longer, the miserable brigade of sucking surgeons. and struggling physicians, who now, with the exception of Keate, form the staff of the establishment, can painfully testify. But in the palmy days of nepotism it was otherwise. The Highlandmen's cry of "Shouther to shouther" (shoulder to shoulder), was never more strikingly illustrated at Waterloo-they never stuck more closely together than did the St. George's men of these days. It was in short a real family compact: Chambers cried up Brodie; Brodie extelled Chambers; the satellites and retainers of each caught up the echo, and not a man within a mile of Hydepark corner had a chance of practice, unless he belonged to the clique. The whole practice at the West End has thus been reduced to a sort of family affair. "Scratch me, and I'll scratch you," is the universal maxim, and in so far as Brodie and Chambers are concerned it is maintained resolutely as ever. They have each left St. George's, but the inferior adherents who remain would no more think of taking a fee without calling them in, than they would of refusing one from the unlucky wight that falls into their hands. Hence the extensive employment of Brodie and Chambers as consulting practitioners, and though the men may be good, the system is bad. It in fact reduces an honourable profession to the condition of a mercenary trade.

If called upon to give a stamp of individuality to Dr. Chambers as a member of the medical profession, we should experience some difficulty. Of a man who has never written, or publicly spoken of a science, it is no easy matter to form an estimate, except in a general way; and yet our readers, as well as the public in general, may be desirous of knowing to what peculiar qualification it is that the subject of this sketch owes his commanding and fortunate position. They will also be anxious to know if he presents any feature that strikingly separates him from the common herd. But in truth it is difficult to gratify their curiosity. In his private capacity he stands aloof in striking if not stately isolation from his professional brethren: no hospital now witnesses his presence, no medical society or club is honoured by his attendance; at professional conversaziones he is mute, if not absent; and the object being gained, the means

is east off. The apothecaries who formerly sat at his board enshrine themselves there no longer; and while physician at St. George's, he passed with such silent rapidity through the wards, that it would puzzle the most assiduous student to remember a word that he uttered, or-when assisted by the Hospital journals-an act that he did. Not that Chambers is a gloomy misanthrope, or an idler His appearance, his character, and his habits utterly belie the supposition; not that he is naturally or professionally incompetent; his language, his aspect, his full-developed forchead show that his mind is masculine, though not so gigantic as his body; and the facility with which he shines in those lighter branches of classic literature which were wont to form (and probably still do form) so large a share in the system of education adopted at our fashionable schools and universities, indicates that his powers have not been uncultivated, though many perhaps will concur in the opinion that, applied to such trivial, if elegant, purposes, they have been woefully misdirected. However, chains a son gout, it is Chambers' pride and pleasure so to excel; and he probably reforces more in the late Marquis of Wellesley's apostrophe,-who in a short Latin poem written a few days before his recent decease, addressed him as classic "Camerarius," than if he had indited Hippocrates, sent forth the works of Cullen, or rivalled Hunter or Harvey in

In personal appearance Dr. Chambers is a stalwart healthy man, bearing a greater resemblance to a veterail life-guardsman than to a fashionable physician. He is, however, of agreeable manners, and, so far as physicians can be, of feeling disposition. As already mentioned he has written no work, though he is reported to be an elegant classical scholar, and to possess considerable dexterity in writing Latin verse, an accomplishment in the nonsense department of which Sir Henry Halford also excels.

PHILO-PROBE.

EXTRACTS FROM FOREIGN JOURNALS.

(From the Berlin Medicioische Zeitung, for the Modical Times, German. On Fractures by Dr. Schlesier .-The object of Dr. Schlesier in this paper is to show the advantages of Sentin's starch bandage in fractures, and especially for children, as he considers that with its greater firmnesss it is more simple and lighter than the common bandages, &c., and therefore controlls the fracture and its coaptation much better. He gives three cases of fractures in children.

Cure of Two Preternatural Joints in the same Individual, by C. G. Gunther, Surgeon.—A labourer being at work in a coal mine, a large mass of coal fell upon him, by which, besides other injuries, the left arm and leg were fractured, the tibia obliquely, the fibula across, in the forearm both bones. The tracture apparatus was of the writer's own contrivance. In six weeks the ulna was consolidated, but the radius was quite moveable, and crepitated strongly. On the 49th day, he first remarked the growing of the toe nails of the fractured leg, shewing that the consolidation of the fracture had com-It went on to the 61st day, when menced.*

This remarkable physiological phenomenon, which teaches how economically nature proceeds in the employment of organic materials, 1 (M. Giorthur) have observed in several instances during nine years. In 1832, a very observant young man, who had a fractured leg, perceived that the toenails of the foot did not grow like those of the sound one, for they continued in the same state as at the time of the accident. He had cut them the day before the accident. This circumstance appearing to me to be in connection with the healing process, I paid much attention to the further condition of the nails; and on the 50th day I first perceived a renewed growth of the least toe-unil, in a few days the three others, and after a week the great tocnail. Repeated observations have given me certainty that the restrained growth of the toe-nails are forgot, the elevation being reached, the ladder is a constant phenomenon with fractured limbs.

both fractures of the leg were found disunited. The writer attributes the failure of union to the very poor living of the patient. Throngh nourishing diet, with a good allowance of beer, the fractures of the arm were quite consolidated in twenty weeks, but the tibia formed a preternatural joint. At the end of 145 days he eaused the patient to walk about his chamber, supported by a person on each side, as from weakness of the left arm he could not hold the erntch. After some days the arm and leg became stronger, and he was able to walk alone. In some months from the accident he was able to labour.

Cure of Artificial Joint, by M. Wiefel, Surg. —A healthy man, a servant, æt. 26, had fractured both bones of the forearm more than a year before he applied to the writer for advice. The arm might have been bent in any direction, and in moving it, the ends of the bones might have been heard rubbing against each other; they were apparently held together by a kind of capsular ligament, thus forming a false joint. On consideration, he thought it might be cured by producing an artificial anchylosis; with this view he inserted two long needles between the fractured ends of the ulna, so that they passed quite through the artificial joint from one side to the other, letting the needles remain. On the first day they caused much pain, on the second but little, on the third the pain was again violent, on the fourth much increased, and extending to the whole arm and shoulder, with swelling of the forearm; on the fifth it extended farther, even to the head, with violence: as the punctures now began to suppurate, the needles were withdrawn; cold applications to the arm, which in two days relieved the pain. The place of the fracture after fourteen days remained swollen and hard. Fourteen days after the first operation, three needles were inserted in like manner between the broken ends of the radius; during the first five days the same effects were produced as with the ulna, but the subsequent inflammation of the place of fracture was later and stronger. The arm remained four weeks in one position, and six weeks after the acupuncture, the bones were completely united, but that of the radius yet remained tunefied and painful.

Reunion of a Divided Finger .- A cannoncer of the 8th brigade of artillery, severed completely with an axe the last phalanx of the left middle forefinger, close to the joint. After an honr, when received into the lazaret, the cut off end of the finger was placed in its proper situation, and retained by plaisters and bandages, it became completely united by "prima

reunio."

THE WAR (MESMERIC) IN THE NORTH.

To the Editor of the "MEtric vi. Timi s."

SIR,-You seem completetely to have overlooked the mesmeric war now raging in the north, between Mr. Squire Ward, Mr. Wilson, and Mr. Wood, relative to the late operation at Wellow. Permit me to send you an ontline of one of the engagements. Mr. Wilson commenced the attack in column, by discharging a Marshall's (Hall's) baton, in the shape of the excito-motory system, by which he hoped to put his adversaries completely hors de combat: but unfortunately, in the onslaught, he went too far-idest, he proved too much. Videlicet, after a flourish (of trumpets?) about the said Marshall's (Hall's) wonderful discoveries—discoveries I suppose he calls them, because the said Marshall, in a foraging expedition, picked them up in Prochaska, Whytt, and

Albert Haller-he continued to harass his enemies thus:-

" Its action (the creito-mot.) is so entirely independent of sensati n and voluntary agency, that it is hest manifested when these are temporarily suspended. For instance, a person is asleep, you gently touch the eye-lashes; the impression is conveyed by the incident nerves to the spinal marrow; a corresponding impression travels thence to the muscle surrounding the eye-lids, and these are closely pressed together. Or, you tickle the soles of the feet-THAT LEG, and, MOST PROBABLY, the other (!) also, are retracted."

After a prodigious effusion of-ink, he knocks his adversary on the head thus :-

"The only alternative is, that the patient felt ell that was inflicted (?) on him, and that he had made up his mind to bear it without flineling, and This is the solution of the whole mystery. Let mesmerists take the hint-(READ THIS, VE OPTER BARBARIANS, AND TREMBLE! The Governor Lin!)-and before another case of 'amputation without the knowledge of the patient is got up, let them get up the discoveries"—(that is the foraging discoveries)-in the nervous system " of Doctor (Field) Marshall Hall."

Bow! wow! wow! "Let no dog bark!"-

Governor Lin, passim.

Did ever Christian, Pagan, or man hear such stuff? The fool who fancied he played upon the organ, when he only blew the bellows, was a sage to Mr. Wilson. But let Mr. Squire Ward advance :-

" According to Mr. W.'s law, I presume, that on touching the eyelashes of one eye the orbicularis muscle of both eyes ought to be contracted at the same moment, but he does not say so, nor is it so invariably. Again, by tickling the sole of one foot, so as to produce an effect upon the nerves, and consequent retraction of the leg, BOTH LEGS ought thus to be simultaneously and invariably retracted-but

Mr. W. does not say so—nor is it so invariably.
"Now we will hear Dr. M. Hall," continues Mr. Ward, " in the Laucet."

(What! Monsieur Tonson come again! I thought he had committed suicide; at any rate, I know he went to Church-ill, looking werry-vide Boz, for this elegant, monosyllable—pale, desperate, and determined to do or die). To resume:—

In the Lancet of the 3rd Dec., this gentlemen is reported to have said at the meeting of the Royal Medico-Chirnrgical Society that the case ' proved too much.' It was said (the Marshall loquitur) ' that whilst one limb was undergoing amputation, the other remained perfectly motionless. Now nuless man differed from all other animals this could not be. Even when the head* which is the organ of sensation, was removed, the laceration, invision, or puncture of one limb' (WHAT HAS BECOME OF THE SOCIETY FOR THE PREVENTION OF CRUELTY TO ANIMALS?) induced muscular actions in the other. Was the source of these movements as well as sensation annihilated? Certainly not; tor the patient breathed perfectly, swallowed brandy and water, &c. This is Dr. Hall's oral statement,' continues Mr. Ward, 'now mark his PRINTED one. A horse is struck with a pole-axe over the anterior lobes of the brain. It fell instantly, as if struck with a thunder-bolt; it was convulsed, and then remained motionless. It shortly began to breathe, and continued to breathe freely by the diaphragm. When lacerated by a sharp or pointed mstrument on any part of the surface of the body, it was totally motionless, manifesting no evidence of sensation or volition. Here is a discrepancy which I cannot reconcile, viz., that in an animal, whose head has been cut off, muscular actions are induced in both limbs by pricking or lacerating one, while in the animal which has only been stunned by a pole-axe, the same prickings and lacerations fail to produce the same effects—and in spite of the animal remains "totally motionless."

But we cannot follow Mr. Ward further in his very crushing expose of Dr. Marshall Hall. Let us see what Mr. Wood says. After stading that he was unwilling to say anything of "the luminous discoveries of Dr. Hall, because he would be compelled to quote Prochaska for them, he thus continues:

"I will content myself with mentioning a case in which this distinguished physician was concerned, and in which it might have been supposed that he would have availed himself of some of that knowledge which Mr. Wilson seems to think he possesses, to alleviate the distressing sufferings of his patient. A few weeks since I was accidentally introduced to a family, in which the only daughter had been suffering for TEN YEARS from a severe form of St. Vitus's dance. Every thing had been tried in vain; no expense whatever had been spared in the attempt to relieve her sufferings. Amongst other physicians who had been consulted, this Dr. Marshall Hall, who was known to have cut up a vast number of animals, and was supposed, in consequence, to know something about nervous diseases, was unfortunately trusted for 12 months with the case. At the end of this time the patient so far from being in the slightest degree improved, was worse than ever; and, in addition to her distressing malady, had her shoulders disfigured by cupping, and her teeth and gums destroyed by mercury, which had also ruined her digestion. When I saw her I thought if she could not be cured, she might at least be greatly improved by mesmerism, and offered to try it. offer was at once accepted, and, for the last five weeks, I have had the satisfaction of seeing in her a steady and decided improvement. The change has caused no less delight to her family and numerous friends, and from the decided, and I may say rapid improvement that has taken place, I think we may reasonably hope that it will continue, and that she will be perfectly restored.

To offer any remarks upon evidence so conclusive of what Dr. Hall himself means, would be "gilding refined gold." Mr. Wilson, by way of "taking in" the clodpoles of the north, fulminates the great London physician Dr. Marshall Hall, of West Middlesex Assurance notoriety, against them, and mark the results, -he has proved himself ignorant of that to which he pretended, and has exhibited the great physician as a wretched pilferer, a poor creature that does not know, to-day, what poor creature that activities opinion was yesterday. Yours, &c.

BETA

ROYAL MEDICO-BOTANICAL SOCIETY.

January 11th.—Dr. Farre in the chair; Mr. Rodgers delivered a Lecture on the Proximate

Principles of Opium.

9th January, 1843.

He observed that :- Of all the products of the vegetable kingdom, there is, perhaps, not a more complicated one than that which is obtained from the papaver somniferum. This alone is an object of much physiological and chemical importance; but there are special matters connected with opium, which make it of great interest to the chemist; for it was during the examination of this substance, that morphia was discovered-a discovery which has given rise to investigations that have already produced the most important results, not only in organic, but inorganic chemistry.

Mulder analysed five specimens of opium from Smyrna, and the following is the average of his results:-

Narcotine . . 7.713 Caoutchoue . 4.338 Morphia . . . Codeia . . . 6.228 Kesin . . 2.753 0.767 Gunmy extract 25.370 9 000 Gum . . . I.706 Narceia . . . 0.790 Mueus . . . 18.733 Meconia Meconic acid . 6·121 Water . . . 12·108 Fat . . 2:209 Making altogether . . . 97 836 ful.

The existence of other principles in opium, besides the above, has been supposed by other observers; of these, I may mention Thebaia and pseudomorphia. The former is described by Couerbe, as existing in a small proportion, and the latter by Pelletier, as occasionally occurring.

Narcotine is readily obtained from opium, by the action of boiling water, and is preserved in crystals, as the ethereal solution cools: other methods are occasionally adopted, but the above is the readiest mode of preparing it.

Morphia can be obtained from opium by many processes, one of the best is that proposed by Drs. Gregory and Robertson, a modification of which is adopted in the present pharmacopæia.

The tests for morphia in the pure state are very decisive. The following are the best:-

Nitric acid, when dropped on morphia or its salts, produces a red colour, which soon becomes yellow.—Neutral perchloride of iron produces a blue colour.—Iodic acid, when added to morphia, is deprived of its oxygen, the free iodine can then be detected by starch. -The salts of morphia are more soluble than

Codela was discovered by Robiquet, 1832, and Pelleticr states, that he obtained 6 ounces from 100 lbs. of Turkey Opinm. It differs from morphia in being more soluble in water, and by not being reddened by nitrie acid or blued by perchloride of iron.

NARCEIA was discovered by Pelletier, in 1833 It is obtained from opium by a very complicated process. It is, when pure, in white silky crystals, very sparingly soluble in cold water, soluble in alcohol, but not in ether. The action of acids is pecuhar; when strong, they decompose it, but when diluted they gradually combine with it, producing at first a blue colour, which passes into purple and red, and finally disappears.

MECONIA was discovered by Dublane and Couerbe. It exists in very small proportion, and its properties require examination.

THEBAIA was also discovered by Couerbe, and described by him to possess very strong alterative properties.

MECONIC ACID is peculiar to opium, and forms salts with various bases. It undergoes peculiar changes by the action of heat, and produces two new acids, viz., the metameconic and pyromeconic.

This acid produces with the persalts, a red colour. Much has been said about the tests for opium; it is one of the few organic poisons which admit of decisive detection; for if we can obtain proof of the presence of morphia by the tests already enumerated, and the red colour, by the action of the persalts of iron, on meconic acid, from a suspected solution by the means recommended in various toxicological works, there is no doubt of the existence of

At the next meeting, Dr. Sigmond will deliver a lecture on the effects of some medicinal plants and their preparations, in the treatment of asthma, more especially during the paroxysm.

CHANCES OF CURE FOR HARE-LIP. - M. Roux has now operated for this deformity above 100 times. In cases of "division simple," that is, we presume, when the division extends no further than the lip, success has attended the operation about twice in three times; but in complicated divisions, or when the fissure has extended to the palate, &c., only one-third of the operations have been thoroughly success-

^{*} Dr. Hall has discovered that the head contains the brains .- Fide his lectures in the Medical Times :-

TO CORRESPONDENTS,

The Pharmaceutical Journal .- . 1 orrespondent. whose eyes the Pharmace land body find little mone, ends us a pager wished the sculped is very ticely read on that is probably but recordingly not unsuited, subject, the "Plantace areal donn ai." the kilmions once neathered in event her handing wits, had been something remeal could be their duped maily de -pour editors - cur correspondent would have been his crueting in his requisitions, and have probably written with something has of siverien; no it is, we must content ourselve, with guring the concluding partial of his observations in extenso. "Some Correspondents are readently indulying, at this Salarious season, in a little centle housing of the discriminating chiar. Our conds up a spection of what he thanks factrious ammonio-chloride of tren. The editor armounces that it " possesses mere of the characters of that abstance, and appears to be hidrocklarate of mamonia, braised, in d Sightly to ed. prohalily with tweture of sesqualdernic of iron. Inother "Correspondent" but rms us that a douber in creak of tactor called on him a short time upo, in impure the effect of plaster of Paris on the system, as he had so'l a quantity of cream of tartar at a price at which it was impossible to farmish it genuine, and which did not admit of its adultivation with sore pensive a substance as above - I we had. L. E. Y and H. P. S. are informed that the *Context has not not restituted on constration for lawers . - We suppose the above gentlemen are in basic. A Country A mette is reformed that ' fernestation is a mee any pricess in making cyder. Inother Associate is inhereau Part the editor has no credence of the fact, that nater with a spare dut lends to make people stout. I is not probable that the elements of water are a muthard in the formation of fat. It lamist and Druggest is responded to that the know of my chamal necessity practically available, by which thick flint slaw might ne decomposed, so as to obtain perforations of deter minute dimensions through it. - This is countrie " Amiens' is informed that "the probabines agained pirating the depliner of the society is general, admit-ting of mescaption, - Spuke like an oracle? The Closing of Shops, south the caiton to many corres pendents. 'Is a subject that has had our most mainte rousideration, not only at the present time, but also long before the establishment of the Pharmacentual Swinty. The facts mentioned by several of our correspondents tend to contirm the opinion which we had previously formed, from observation and experience. tion is not at every imposed, and the materness the ques-tion is not at extreme difficulty. If Mr. Bell abouts here, as his words imply, to the mate shutting up of the strop, we think he and his correspondents are make ing a pother about a matter which a stout shap-bon would soon sattle; but if the 'cotrona deflicalty' to an the question-the vexata questio-of the hour for the general closing of chemists shops, then we appreciate his good sense in not, editorially, attempting to bel that cat, without the corder co-operation of all less "into "i cut correspondence" So much "for light Parson entreat reactive."

Mr. Brookes with the many of that Dr. Tanna from his note in our la tour day, seems to have ous ouderstood ham. He says, the "teering of chamminess of the tips of the forgers" whilst Me more angles vertainly not an marriable accompaniment, and is observable only in Same rase, it ere cornvers, and correlly in the hands passing mer purto what points, and realway, an indication of the alma and events a of the eparts. He " could wish also Dr. Bine - had been more occurate or his recallection of his observations in to " fee" ing indisposed after na americing. The operation doubtles, produces much executor character than small result from the mere universary energy, and there is Trouty incommente to has generally experienced, out in a few epiteptie, and other case . where most mense has reisted, be las accessorally experies of io aderalde indisposition after."

Serres's Lecture on Organogeny- Dr. Williams on the Practice of Physic- car bulliant triend Probe on the St. Thomas's Letterers - the Laitur on Pereis a Medicul Consernment, met week.

Mr. Crare Souds is an account of some phrene mesmore experiments renformed by him at Yerk, and ne smorte (1) e timents springen a grain e 1900, per son de la Mark lei Car (1). If now the reput of a medical vetties. Be established to un fact in the statement, i.e., that an incredibles medical

the first e-say; and on having his organ of combathermass carried, " started up - gave Mr. Craig a blew on the face, which cut his lip, and afterwards struck Less rescribly on the breast, was to render him sich; a pretty good proof, we should that, of the absence of collusion or the presence of non-level rarryrdom in the cases of a lone than we stead be disposed to exhibit. The ancedote remains us of a phremological lecturer whe, on heirs knowled down by an venmined young man, who had been just told by him that he had the organ of destructions s very hadly deceloped, get up with great jug beaming in his countenance, and eveloimed, "There, ladies and gentleman, the most satisfactory proof of the finite of phrenology Lever and with in the course of any life. We have also re-ceived natives of the Lectures of Mr. Bruches at Maidstone, and Mr. Spenier Hall in Yorkshire. They mic interesting, but space is mainting.

Letters lare been record as ϵ and J. Solkirk and H. N. We have been sent also Mr. Smith sease of gonarthava. He have some doubt, about the accuracy of the namenclature. Can then be recovered?

At the pundent writes . - A case of Spina Biffill termineted fatally here a few weeks ago. The encumference of the tumor, a few days precious to douth, was wheat 20 inches, and embraced, at least, three of the dor al, and two of the lar, har rertebra. The age at death was six years and two months. It ill any of your readers favor the Method Times with a bint states of readire transposin that case of the same cotent? Hydrocephalus was combined with disease of the spine, - R. A.

EMPHRICAL As A SINATION, - We have been sent the fothering narrative, published in the Banbary Guardian, with a letter containing further explanations from a Gentleman aring the district .- "At the village of Warmington, but in the Poor-law Union of Baubury, an aged pauper met with his death under peculiar circumstances. The inquest was taken by a Jury, before George Cattel Greenaway, Esq., on the 31st. ultimo. John Coleman, proved that at four o'clock in the morning of Tuesday, the 20th of December, he found the deceased under deceased's bed room window, much hurt; the window was twelve feet from the ground, and deceased had fallen from it. The witness applied to Mr. Wyatt, the overseer, who recommended that Mr. Wise, a surgeon of Banbury, should be sent for, but witness did not think it necessary, and the following day Mr. Wise called. The witness was not aware the doceased had sustained a tracture of the thigh, until informed of it by Mr. Wisc. Mr. Robert Stanton Wisc, the surgeon referred to stated, that hearing of the accident, witness called on the deceased. when he found his left thigh considerably swollen. and broken about the middle the fracture being a simple one rand he had sustained various other injuries on the leg and body, but there was no external wound on the fligh. The witness placed the limbin a proper position, and ordered the patient to be kept quiet. Witness visued the patient on Fuday morning the 20rd in time. In reply to a question from the coroner, enquiring why Mr. Wise had not visited his patient on Thursday, he explained that he did not consider it necessary and thought him items immediate danger. Mr. Wise went on to state, that on attending on Friday morning at the hon e of the patient, with splints, bandages, &c., he was informed by one of the farmers of the parish, that there had been a meeting of the parish that morn ing, and that they had determined to place the patient under the "Bone-setter," Hannah Coleman, on taking that Mr. Matthews, the "Bone-effer," firsts in the patient on Saturday, the 24th of December, and he saw him almost daily until In death; he directed the limb to be poulticed A wound first appeared on the front of the thigh on Sunday, the 25th, and the bone first protruded through the wound on Tuesday, the 27th; the patient gradually sunk, and died on Thursday evening, the 20th. After Mr. Wise had, in such a manner, been informed that the parish had employed the beau setter, he retired, and did not again attend. In answer to questions from the coroner, as to the earse of death, Mr. Wise, judging from what he had seen and heard, distinctly from the window, accelerated by the simple trac- the higher that best of civic blessings—the

ture being converted into a compound fracture, from the want of proper surgical treatment and attendance, and which would not have been the case had he been under the care of a regularly educated and qualified surgeon. The jury, after a brief charge from the coroner, returned a verdict of Accidental Death (a very convenient verdict!-Is oppose that the hone after ecoupies his position to heredeary right, on the maternal side, he wither, Saken Matthews, having acquired a very flattering distinction in the treatment of broken bone. - and the receptain of broken richals !) -long before her remarkahis secresful son had stepped into the inheritance. But what hall we say of the "farmers," the " commetto The parachial functionary and me nay reasonally suppose, the poor-law guardians, who, by a dehberate vete, pined this infortunate putient under an illucrate and singularly stopid quach, infiling have a mere rust - from his agricultural labours to murder this wretched supendiary of their. Within their enn handelete there were several dislocations of the hip sucreacy corrective service exercises of the off wal harder goons about the partsh for year, nine-d colliferable this fellow's interpid ignormac, and at the ordered laim another victim! The commisweers count, of cour . have had their attention directed tathis very worked culation of their recentlypublished order. The verdeet was what might have en expected in a meighbourh ed so highly enlightd-accidental death-which is only time, ornearly ent, it the supposite a that the jury meant that the math ans caused by the " accident" of the guardians choosing a quack surgeon for their panjer's benefit!

NOW READY.

THE MEDICAL TIMES ALMANAC, FOR HE MEDIA AL HARTS ALEXANAY, PARTIES A CONTROL STATEMENT AND A CONTROL OF THE PROPERTY OF THE ARTHURS AND A PARTIES AND

Price of Sixmer ball

THE MEDICAL TIMES.

SATURDAY, JANUARY 21, 1843.

Aut ben want nulla lege -

At a time when the best, and in some circumstances, perhaps, the indy barrier against the misleadings of interest or revenge-faith in the sanctions of a revealed religion-is being undermined, or thrown down in the minds of so many eager and anxiously striving individuals, the office of Coroner, which we were considering last week, presents itself to us as one of immeasurable importance. The history of Rome, under her Emperors-when Paganism, from being the disbelieved of philosophers, had become the laughing-stock of the multitude—the description of the same city under the Borgias, when every man of influence was in practice what their contemporary and famed instructor, Machiavelli, was in theory-and the assive intelligence of our own country, in our own days, which reveal so many of the more clumsy attempts of our poorer countrymen to rid themselves, by poison, of some troublesome or hated obstacle to better fortune,-all these speak with fearful import of what some specimens of humanity are capable of doing under certain eirenmstances of temptation-and point, with no unmeaning finger, to the wisdom of Society's giving to their criminal intents the smallest pussible fragment of probable impunity. The more watchful the vigilance, and the more successful the justice of the law, the greater, of course, will be the security, and confidence of the individual: and it is no abuse. mean boast of the distinguishing wisdom of plan of this sort, would be annually spared our ancestors, that, at a comparatively dark to men, to whom the time wasted in an era, they established throughout the kingdom, a magistracy whose almost exclusive functions being the investigation of sudden. How much expense would be spared to or suspicious death, made unpunished murder almost impossible. Noble however as is essentially this truly venerable institution-effective as was its operation at its origin-perfect as it should be in this day of improved logislation, when, for a thousand reasons, it's best utilities are infinitely more required, we are yet obliged to declare, in the fullest conviction of our mind, that, in its present condition and working, it is little better than a costly national nuisance. Which of our readers, arrangements, are thus so ridiculously achas not, in perusing or watching the proceedings of our innumerable inquests, asked himself, with us, the cui bono of all the bustle, loss of time, and expenditure of money, ending every day in those most lame and impotent conclusions,-" Accidental Death," "Found Drowned," "Died by Apoplexy," or, by "the Visitation of tiod,"-conclusions which, if true, are truisms that needed no jury's decision, and if false, are crime-hiders. A carpenter talls from a scatfold, and dies-a carter tumbles from his shaft, and is killed-a sailor is found washed on the shore, in the last stage of decomposition-a young lady's diess catches fire, and she is burnt to death -these are the common subject-matters of our Coroners' expensive Inquests; and what is there in them, or in any circumstance connected with them, to call for so absolute a waste of men's money, that cannot be spared, - and of men's time, that cannot be recalled? Let us grant that without some care, crimes may become confounded with accidents, -nay, let us admit that, if there were no other way of avoiding such a misfortune, the prevention of one such act of confusion would justify ten thousand otherwise truitless acts: first, what crime, in recent times, have a Coroner and Jury detected, that was not detected beford their sitting? Paying the greatest attention to the subject, we yet remember no one case where anything has been done for detecting crime with them, which would not have been done quite as effectually without them. We can far more easily imagine suspicion fulled, and enquiry stifled, by the usual and stereotyped verdicts so flippantly given, in general, by ignorant juries-and so welcomely received by impatient Coroners. Secondly, there are other means,-less troublesome, less expensive, and equally sure means, - of dealing with such casualties. Let the medical man attending the case, be required to send, to the nearest magistrate, a written statement of the nature of the accident, with the other eircumstances of the death; and let it rest with the magistrate to say whether the case calls for the further investigation of a Coroner and his jury. Of course, this discretionary power might be variously modified and restricted, so as to remedy, if not exclude,

How many hours, by a simple inquest-room, would be gold in their business, or happiness in their homes? cities and counties? And what a boon would it be to the character of our judicature, to have the country rid of the useless, the burdensome, the ridiculous caricatme on judicial enquiries, commonly presented by our Coroners, with their dozen good men and true-enquiring about what was plain as light at noon-day, and announcing, after great trouble and expense, what everybody knew before!

But while Coroners' juries, under present tive, so uselessly busy, in most cases of accident; they are scarcely more efficient in those eases of maltreatment or murder, the detection of which is the main object of their institution. Where have we a guarantee that a "sudden death" is the result of "heart disease," or "apoplexy," or a "visitation of God," when no autopsy takes place? What can the hasty--the timid, the partial glance at the corpse, effect in the way of giving information to a nonmedical Coroner and a half-instructed jury? We say deliberately, that the present system of holding inquests is utterly uscless in every case where the perpetration of crime has not been of the clumsiest possible character. It can, indeed, only be tolerated in the supposition that the law has no wish to discover or terrify crafty and adroit criminals-for it excludes the possibility of detection in every case where the wrongdoing has not been of the clumsiest description. But the object of the inquest is at once to deter and to punish - to make detection as certain as crime, and by making right the interest, and wrong the ruin of individuals, maintain their safety and preserve the confidence of society. Now we are bold but, to affirm that nothing but a post-mortem examination, including an analysis of the contents of the stomach in every case of sudden, as distinguished from accidental death, can secure in full integrity the objects of the Coroner's Inquest. Any thing short of this is, but a stilling of enquiry and a covering of crime under the very mantle of the law. Of course there would, with the searching scrutiny we recommend, be thousands of eases where nothing would be discovered but the operation of natural eauses-but the scrutiny would not, therefore, in any of these cases be useless. Its uniform enforcement would spare the feelings of the survivors that wound so frequently dealt by the present irregular and capricious mode of investigation; no one would feel that because the remains of his deceased friend were examined, he was himself, therefore, suspected; the invidiousness of selection would be removed. Secondly, seience might be largely benefitted. -We know of few things more required in the Profession, or which would prove of more value to the living, than an accurate auscultators.

knowledge of the statistics of the causes of sudden death. The prevention of such distressing visitations is the only service in the power of our Profession-and how prevent what we cannot foresee-or foresee what is not within the sphere of our experience? In truth, we have only to suppose careful reports of every post mortem examination, sent to a central office (say, the Registrar-General's), where the cases would be properly classified, and their results made known periodically, and who does not see that the advantage to science of such an arrangement, would, in itself, be worth the whole expenditure incurred in sustaining the improved mode of holding

But the great, the paramount advantage, would be the safety it would give, and the sense of safety it would inspire. The detection of crime, if not certain, would be made sufficiently probable to make its perpetration an egregious impolicy; the only argument that can tell with effect on the unprincipled. As was proved by Louis the Twelfth's astrologer-physician, who had his life saved and attended to, because his master's life was thought to be dependant on it, we are never safer than when others' interests are identified in our safety.

We call, then, for a Reform in our Coronership. Its present administration is one of the most trying spectacles a man of sense can gaze on. Changed from what it was at its origin, it is only the less fitted for the changed circumstances of the time. ends of its existence are unanswered: it is neither detective nor preventive of crime. Where it is useless it is active; where it is required it is inert—in everything imperfect. We ask a change. We ask, that whenever jurymen are summoned, and constables and coroners are paid, that all this shall be done to some purpose. Once met, let them not separate till they have put the cause of death beyond dispute. If we may trust blindly, in all cases, to each others' virtue-let us have no inquests; if we cannot, let coroners' inquests give us the security they were intended, and are able to give. If this be not done, a thousand times better to leave every case of sudden death to the public's care-to the common sense of the neighbours. Crime, if it will ooze out under the present system, will assuredly ooze out without it. Without the coroner there would be suspicions; without him accusations; without him, charges before magistrates willing to act in any case justifying interference.

Thus superseded in its present mode of action, thus ridiculously uscless, common sense impatiently asks that the office should be at once either amended or abolished? We say AMLND IT.

NEW MEDICAL INSTRUMENT .- The Echometer of Dr. Aldis is, we think, well adapted for the purpose of percussion. It may be seen at Savigny's, &c. It is not only ingenious but likely to prove useful especially to young

REVIEW.

The Physical Diagnosis of Discuses of the Lungs. By Walter Hayle Walshe, M.D. Professor of Pathological Anatomy in University College, London; Physician to the Hospital for Consumption and Diseases of the Chest; Member of the Medical Society of Observation of Paris, &c.

WE can recommend this volume as a useful guide on almost every point connected with the physical diagnosis of the diseases of the respiratory organs. Our author has studied his subject with great care, and given in the small volume before us the result of his observations in a very condensed form; yet so as they may be consulted with pleasure and profit, both in the closet, and at the bed-side of the patient. The book displays, in a very striking manner. the resources of art in the detection and distinguishing of respiratory diseases. We can remember the time when the physical signs of such diseases were almost entirely overlooked. The medical man, at the time to which we refer, was satisfied with an examination of the pulse, the breathing, the expectoration, the degree of pain, and the quantity and quality of the various evacuations. His diagnosis regarding even the seat and nature of respiratory affections were, consequently, seldom correct, and never correct to the minutest particulars. By attending to the physical signs, however, of these diseases, a door is opened to a more thorough knowledge, and a more philosophical treatment of all such affections. The methods at present employed in observing the physical signs of internal diseases are, according to our author, of seven kinds, viz.; -1. Inspection; II. Application of the Hand; III. Mensura-tion; IV. Percussion; V. Auscultation; VI. Succession; V11. Determination of the Situation of surrounding Parts and Organs. The subject generally of which our author treats, is arranged into three parts. In part first, a description is given of the above seven methods of physical diagnosis. Part second consists of two sections, the first of which is thrown into a tabular form, and places before us a notification of the causes and seats of the various physical signs as well as the names of the diseases in which the signs are observed, and in the second section, we have a well digested synopsis of the physical signs of the diseases appertaining exclusively to the lungs. The third part of the work consists of a critical commentary on points both of theory and practice, connected with his subject. We shall make a few remarks on each of these sub-divisions of the work; and first of the methods employed in the detection of internal diseases. We have no means of investigating the physical signs of disease but by the senses; and why should we restrict the investigation to any one sense: - to the eye or to the sense of touch? Wherever abnormal sounds exist, the ear is the proper organ, obviously, for appreciating these, and where peculiarities of smell or tuste exist, or are evolved during disease, it is as clear that the senses of smell and taste are the only organs that can be depended upon in the investigation of such peculiarities. By the proper application and training of three of the senses, medical science has already been much benefitted; and were the senses of smell and taste also pressed into the service, it is probable that still greater triumphs would be made. We ourselves have long been in the practice of distinguishing the proper gonorrheal discharge from the other discharges of the urethra by the sense of smell. We have also frequently been able to predict, previous to examination with the hand, the existence of cancer of the uterus, by the pecu- cient manner is, to perform several quick noiseless resistance very much increased, under certain

liar odour of the secretion, and all know how easy it is to discover the existence of diabetes mellitus by the sense of taste alone. To the methods then adduced by our author, we would add those of OLFACTION and GISTATION, and would strongly recommend to our readers and contributers to enter without delay upon the investigation of this hitherto unexplored field of medical research. Our author has given many short but excellent directions for the practical application of the different methods at present in use, and shows no overweening partiality for any one method. It is not all auscultation with him, but while he concedes to each method its true value and place, he inculcates the propriety of employing all the methods, when this is practicable, as one method tends to confirm or rectify the conclusions drawn from another. Our limits will not permit us to follow our author more closely in this part of his subject. The following directions in the use of the stethoscope may be given, however, as a favourable specimen of our author's style and manner of treating this part of his subject,

In performing anscultation several precautions, affecting the observer and the observed, are to be attended to. 1 .- The chest should be incovered, or, if such exposure be inadmissible, as thin a layer of clothes as possible allowed to remain between its surface and the stethoscope. 2.—All friction between the stethoscope and the patient's or the observer's clothes should be carefully prevented, 3.—The position of the patient should be regulated in the same manner as for the performance of inspection; an unconstrained state of the muscles being particularly necessary, in order to ensure free entry of air into the lungs. The sitting pos-ture is, everything considered, the most conducive to perfect investigation, provided the chair em-ployed have a tolerably high seat. While the front of the chest is submitted to examination, the patient should sit not exactly creet, but with the trunk sloping a little backwards, the arms being allowed to hang loosely at the sides. When the observer proceeds to examine the lateral regions, the patient may be directed to clasp his hands on the top of the head, in other respects, retaining his former posture; and lastly, when the posterior regions are examined, sit upon the chair astraddle, with his back to the observer, his arms crossed, and his head bent somewhat forwards. Mutatis mutandis, the same precautions are to be taken when the patient stands, lies, or sits up in bed .--4. It is of importance to apply the stethoscope firmly but not forcibly to the surface: too slight or too strong pressure interferes with the accurate transmission, or alters the character, of the sounds. Besides, persons with tender skins, or in a state of extreme emaciation, cannot endure rough application of the instrument .-- 5. Great care must be takan to ensure accuracy of contact between the skin and every point of the circumference of the end of the stethoscope; as a necessary condition for this, the instrument must be held perpendicularly to the surface -6. The position of the observer should be free from all constraint; he should apply his car to the stethoscope in the same manner as the instrument to the chest; concentrate his attention upon the sound examined; and, unless a most experienced auscultator, proceed (as far as is compatible with the patient's safety) slowly with his examination. —The motto festina lente, is a good one for the beginner in the study of physical diagnosis. 7. It is advisable to commence the auscultation of patients, while they breathe in the manner to which they are naturally inclined; because it is important to ascertain the precise natural condition of the respiration, and besides, directions for the regulation of the act often puzzle. Some individuals, however, absolutely require guidance, as the moment they perceive the instrument applied to their chest, they throw the muscles of the trunk into violent and unnatural motions, which of course materially impede the entry of air into the lungs. The readiest way of making such persons breathe in an effi-

respirations before them, and desire them to imitate these. This method will, however, occasionally fail; our object may then be gained by desiring them to sigh, to speak, or to cough. The deep inspiration required for the performance of these acts, will at once enable the observer to ascertain the condition of the murmurs; and indeed there are many states of the lung in which. quite irrespectively of the patient's manner of breathing, much information may be gained by a single cough. 8. Certain sounds produced in the pharynx are liable to be confounded with the true pulmonary sounds of respiration; the error may be avoided by directing the patient to open the mouth, if it have been previously shut, and vice sersa. If the sounds heard have their seat in the lungs, they will suffer no change from this opening or closing of the mouth; if in the pharynx, they will be more or less modified in character. 9. Both sides of the chest must be submitted to precisely in the same way,-as already explained in reference to percussion .- 10. Auscultation should never be considered complete until the entire chest has been examined; it is often in some or other situation, where the symptoms would least have taught us to look for disease, that ausenliation proves its existence.-11. In acute affections, auscultation should be repeated twice, at least, in the twenty-four hours,

As the first part of our author's treatise is confined to an explanation of the methods employed in discovering the physical signs of the diseases of the respiratory organs in the second part, the signs themselves naturally come to be investigated, and from the tabular form which our author has here adopted, a vast amount of information is condensed into a small space. The signs discoverable by the seven methods of investigation, above referred to, are given in succession, and the table is so constructed as to give under each method,-1st., the name of the sign; and, the physical cause of the sign; 3rd, the ordinary seat of the sign, and 4th, the diseases in which the sign is observable. Besides the valuable tabular view above referred to, this part of the work includes a synopsis of the diseases of the lungs, in which the signs of the diseases of this most important organ are given in a more connected and systematic manner than a tabular view could impart. As a favorrable specimen, we select the description of pneumonia, which will reward the attentive study of our readers.

ACUTE PNEUMONIA.

a. Of a considerable Mass of the Lung.

The question whether the existence of pneumonic inflammation can be detected by physical signs, before the stage of engorgement has supervened, and if so, what those signs are, is elsewhere examined; the three admitted stages only of the disease, together with the phenomena of resolution, will be considered here.

First Stage-Engargement.

Inspection, Diminution of motions of expansion and elevation (if severe pain be present.)

Percussion. Sound less clear than natural, resistance slightly increased.

Inscultation. Respiratory murmans weak, suppressed or masked by rhonehus in the affected parts : exaggerated in those at some distance from it and in the opposite lung; true crepitant rhonelius; vocal resonance somewhat increased; some degree of bronchial cough,

Second Stage-Red Hepatization.

Inspection.—Expansion of the affected side; bulging of the infra-clavicular sub-region in pneumonia of the upper lobe; diminution of the motions of expansion and elevation; motion of expansion diminished in proportion to that of elevation.

Application of the Hand,—Increased vocal and tussive vibration; pulsatile vibration?

Mensuration. Increase in the semicircular measurement of the side; deficient increase in semicircular width in inspiration.

Percussion.—Sound diminished in clearness, until

completely dull, decreased in duration, sense of

circumstances of locality of the inflammation, character of the sound tubular.

Auscultation .- Respiration bronchial, or blowing, of either the diffused or tubular varieties; weak in the immediate vicinity of the inflamed part (Grisolle;) exaggerated in more distant parts and in opposite lung; bronchophony, or, under certain circumstances, broncho aegophony; bronchial cough; intensity of transmission of heart's sounds increased.

Third Stage,—Grey Hepatization, or Interstitial Supparation.

The signs in this stage are the same as in the preceding one; facts observed of late years tend to render it probable that the occurrence of a peculiar form of mucous rhoneus, in addition to the signs of the second, may announce the supervention of the third, stage,

Stage of Resolution.

Inspection.-Retraction or depression of the affected side.

Mensuration. - Dimination of semicircular width. Percussion,-Dulness of sound less marked than previously, and gradually decreasing in amount, with a return of the natural clasticity; the alteration of sound is long, however, in being perfectly

Anscultation,-Respiratory murmurs weak and harsh; redux crepitant, or sub-crepitant rhonchus; still some bronchophony gradually disappearing. b. Lobular Pucumonia.

[The pneumonia of infancy, and in a particular form that preceding the formation of secondary abscesses in the lungs from the circulation of pus with the blood.]

Inspection, Application of the Hand, Mensuration, and Percussion, give merely negative results in true lobular pneumonia.

Auscultation.—Respiration exaggerated in some points; harsh, bronchial, or even slightly blowing ometimes in others; occasionally a few cracklings of an imperfect crepitant rhonelius; in children, the dry or humid rhonchi of bronchitis.

CHRONIC CONSOLIDATION OF THE LUNG.

Chronic Pacumonia.

Inspection .- Depression, especially visible in the infra-clavicular region; diminished freedom of costal movements, while the general motions are not perceptibly affected.

Application of the Hand.-Increased vocal and tussive vibration.

Mensurative. -- Antero-posterior diameter in the infra-clavicular region diminished; semi-circular measurement of the side sometimes diminished.

Percussion.-Sound diminished in clearness and duration, resistance increased; tendency to the wooden or to the tubular character sometimes

Auscultation.-Respiratory murmurs weak in the affected spot, harsh, bronchial, or having the diffused blowing character to a slight amount; exaggerated in the neighbouring parts; bronchophony; bronchial cough; heart's sounds transmitted with undue intensity; irregular subcrepitant rhonehus in small quantity, occasionally, at the very earliest period of the lapse of the disease into the chronic state.

The third or last sub-division of the work before us consists of explanatory and critical notes, touching the various points of doctrine and practice referred to in the first and second parts of the work. We consider this a very valuable sub-division of the work, but being thrown at the end of the volume, it is stripped of some of its interest. We think the preceding parts of the volume would have been rendered less dry and heavy, had the notes been brought in juxta position with the subjects to which they refer. They would be more likely to be read than when thrown together, without any bond of union, save that of the subject to which they refer. Be this as it may, the notes themselves are valuable, and show that our author has not only studied the snbject in all its details, but likewise acquired acquaintance with the opinions of all the authorities upon the subject of which he treats. Our author is neither a slavish follower, nor a

blind adviser of the opinions of others, and with the liberality and good feeling characteristic of the ingenuous mind, he uniformly displays judgment and discrimination. In compiling this work, Dr. Walsh has done the profession some service. We wish him the success which this work proves him to deserve.

DEATH FROM STARVATION. APOPIEXY. - By J. NOITINGHAM, Esq., Surgoon

I was requested this morning, Jan. 12th 1813 to examine the body of a poor woman, aged 33, the mother of a large family, who died suddenly on Tuesday evening. She was the wife of a labourer, who, during the last three months has earned little or nothing; and for the same length of time, himself, his wife, and six children, as might easily be supposed, have had exceedingly low fare; -the youngest child is twenty-two months old, and this child the mother suckled up to the time of her death —although she herself, to use the words of one of her neighbours, "lived only on potatoes and now and then a half-pennyworth of coffee, which she mixed with a little boiling water, and then drank it."

Formerly the poor woman enjoyed good health; she was low in stature, active and industrious in her habits, and anxious for the education and welfare of her children: of late. however, she had had occasional attacks of fainting, and had complained of sick-headaches, but always evinced a disposition to hear up against every suffering, difficulty, and dis-

On Tuesday evening she earried two buckets of slop, one in each hand, to feed a couple of pigs, by the future sale of which she hoped to obtain some little gain which might help her with her family during the remainder of the winter:-arriving at the place to which she carried this weight-she dropped down dead.

On examination, we found the different or gans in the chest and belly in a tolerably healthy state, the stomach was empty, save a few remains of undigested potato, and the bowels much distended by wind; having examined these parts with care, we proceeded to open the head.

The top of the skull being removed, the membranes covering the brain were examined, and found healthy; but through their semitransparent layers on the right side, we saw blood which was evidently out of its proper vessels, and upon the surface of the brain.

The membranes were cut open, and the brain taken out,-when the right hemisphere was found to be what we may call broken at a point corresponding to the middle of the temples, and from this break a clot of blood projected, which was traced into the body of the right lateral ventricle of the brain; it would perhaps have weighed two ounces, it was of a pear-shape, the smaller end extending into the hollow or body of the ventricle :- This was the only clot of blood met with, but the parts of the brain projecting into the ventriele were softer than natural, - as was also all that part of the cerebral mass corresponding to the surface of the effused blood.

It need not be said that this was a case of death from apoplexy,-but it would be interesting to trace the operation of causes which are at work in such cases as this,

Had the protracted suckling of the child anything to do with the fatal event, or might we say that it was the result of starvation alone?-Donbtless, we should be correct in combining the effects of the two, for being, more or less, alike in their effect, we may easily understand their common tendency.

more or less pain and difficulty, when the system is suffering from extreme want of food, which is one proof that the great organ of the mind is especially dependent on an adequate untrition of the body ;- and the blood vessels of the brain, like every other part of the human organisation, lose more or less of their tone and resistance when affected by causes such as those to which we now allude; -thus weakened and irritable it is not surprising that when any unusual effort is made such as the carrying of heavy weights or whatever else it may be,—they should give way under the sudden shock of an increased circulation, and thus put an end to a life of misery by a death which that misery has caused. We can hardly consider that Horace told the truth in his ode,-" Ad L. Sextium Consularem.

· Pallida mors æquo pulsat pede pauperum tabernas Regumque turres.

for death in his travels turns often to the abode of the poor, for reasons which do not take him to the dwellings of the rich, although to the latter, another and an opposite class of causes may bring him, thus helping to straighten the beam of the balance.

About three years ago, I met with a case of sanguineous apoplexy in a little girl, eleven years of age, under somewhat similar circumstances. After several weeks of exceedingly low diet, she one day died suddenly while grinding coffee in the mill in a grocer's sliop .-In another instance-which I examined a few years ago - a very poor woman died suddenly, being three months advanced in pregnancy; she had for some time been in a state of extreme wretchedness, but in her case there was a considerable quantity of serous effusion into the ventricles of the brain, but no extravasated blood.

This paper cannot be farther extended by pathological details,-but moral considerations of the highest importance belong to the history of death, when its cause is not such as ought to occur in the ordinary course of nature. This is not the first, or the second, or the third ease of death from starvation which I have had occasion to attend to, and it has often occurred to me that medical men might often be well employed in observing and reporting on the physical condition of the poor in those almost inaccessible districts and streets in many towns which are so little visited-saving by the clergy and by medical practitioners-for it might be said, without fear of contradiction, that the richer inhabitants of most of our large and populous cities, have little notion of the extreme smallness of the means with which their poorer neighbours-to use a vulgar, but expressive phrase-keep body and soul together.

Such eases we have here noticed, stand in good contrast with all that belongs to the "Merry homes of England;" for although there be much in the beauty of England's excellency, which might have vied with Tyre or Babylon of old-she certainly is loaded in the opposite extreme, with an amount of wretchedness,-perhaps greater than that which is observed in any other, equally civilised, country. The why, the wherefore, and the remedy, are neither so easily discovered, nor so readily applied, as the philanthropist, or the moralist might desire, but this appears to me to be true,-that an investigation into the influences exerted by peculiar physical conditions, on the moral movements of the poorer classes of the community, would amply repay the labour of the most pains-taking inquiry, but could only be made by men who are, at the same time, good physiological and moral observers; and that physiological and moral science are intimately All mental operations are carried on with connected, and should be studied and pursued

will close this communication with a quotation, - perhaps somewhat pedantic, from the Roman philosopher, who was not inattentive to such matters

Omnes artes que ad humanitatem pertinent habent quoddam commune vinculum, et quasi cognitione quadam inter se continentur.

AGRICULTURAL CHEMISTRY.

Caution to Practical Chemists.

The agriculturists are at length aroused, over the United Kingdom, to the important assist ance they may derive from chemistry, and much as we respect the intelligent and respectable of this class, we can hardly forbear suspecting, that the generous reliance of our men of science is, at present, somewhat in danger of being but scurvily responded to on this side the Tweed, at least. But we shall allow the reader to judge for himself.

At a meeting of subscribers to the fund for obtaining the services of an agricultural chemist, held at Edinburgh, on the 9th current, Mr. Milne, younger, of Milngraden, Advocate. is reported (see Edinhurgh Exening Contant) to have spoken to the following effect: -

The report stated, that the Interim Committee had circulated in the different counties. copies of the minutes relative to the appointment of an agricultural chemist, The Directors of the Highland Society had offered not only to afford the subscribers, and their committees, accommodation in their Museum, but to contribute £50 yearly, for five years, on condition, that £350 should be forthcoming from other sources, and among other items, it was proposed, that the chemist should be entitled to charge, for analyses, sums varying from On Shilling to Seven Shillings and Sirpence! As no definite mention is made of the amount of salary to be enjoyed by the forementioned chemist, we are thus so far left in the dark, as to whether the salary, and the fees for analyses, are to be in corresponding pro-

Dr. M'Donald said, if the amount of salary was reduced, and the fees for analyses raised, (as became the dignity of the science,) the meeting would succeed in getting a man emi-nently qualified. The idea of soil being analy ed for a shilling, or for seven shillings and sixpence was one which, he was sure, no one would have suggested that had witnessed analyses, and to expect that a man would, for such a remuneration, give the result of labors, which (when minute?) occupied him ten days, or a fortnight, was perfectly absurd.

A gentleman stated, that he had been informed by chemical gentlemen, that thirty or forty analyses might be carried on at the same time, which would lessen the expense and trou-

ble to the operator.

We are inclined to believe, with Dr. M'Dohald, that neither the first speaker, who, by the way, belongs to a learned profession, or the gentleman who followed him, can have witnessed analyses, saving perhaps, in their indestmechanical form, as practised by itinerent lecturers of infection grade. The original report, as given by the first speaker, sayours too much, unless we mistake, of driving a barquin. Let, therefore, chemists beware! Overstocked. as medicine and its collateral branches are, she has it, at least, in her power to assert her dignity. If she fail in this, she will amply deserve the crumbs, which ignorance and enpidity may have laid aside as her portion.

Arigurs.

together,—we will not take pains to prove, but THE MEDICAL SOCIETY OF BORDEAUX. Forthe L brar of the " Me le of I pane .

> Sin,-I have been requested to forward to you the accompanying "Programme" from the Medical Society of Bordeaux, who desire to make known their intention of awarding a gold medal of the value of 100 of (£24,) to the author of the best reply to the following question :-

> What is the influence of Penitentiary systems, and of solitary confinement in particular, on the health of pri-oners, both in a physical and moral

point of view ?

Papers to be written in the Latin, French, Italian, English, or German language, and sent (post free) o the Secretary, Mons, Burguet, No. 67, Rue Fondandege, Bordeaux, before the 15th June, 1843. Lam. Sir.

Your obedient Servant, C. H. HOLLAND, M.D.

16, Quien Street, Ma - au., Jun 14, 1514.

PHRENOLOGICAL SOCIETY.

Os Monday the above society held a meeting at Exeter Hall, which was most numerously attended. We observed there many gentlemen of science, and the assembly was honoured with the presence of many elegantly attired Lulies, who evinced great interest in the proceedings of the evening. Mr. Ewens commenced by detailing a series of experiments in mesmerophenology, which he had performed upon a highly respectable married lady, a patient of his (under his care), and which entirely confirmed similar preceding experiments, and showed in a clear and beautiful manner the curious and interesting phenomena of mesmerophrenology. He mesmerized her in a few minutes: on exciting the organs, precisely the same results occurred as detailed in former instances, but in still fuller development. When philoprogenitiveness was ex-cited she said she was nursing infant, and assumed a corresponding attitude; upon destructivenes-being pointed at, she threw them away, declaring she could kill the little devils." Benevolence being touched she appeared to recognise many old friends; and combativeness following she began to square a la Cribb; when music was touched she sung "O woodman spare that free!" In conscientionsness she appeared absorbed in reflection: and when changed to veneration, she placed herself in a more beautiful posture of prayer than was ever simulated on the stage. At the end of the atting she said she had enjoyed two hours tranquil rest; she had no recollection of what had occurred-she was quite ignorant that any experiments had been performed on her, and has not vet been told of the circumstance, the operator wishing to avoid all possibility for the least suspicion of deceit or collusion. The second sitting dicited the same results; when music was excited she regretted she could not sing well but " her linsband, she said, intended to send her to Exeter Hall to learn the Hullah baloo?" The third sitting was much the same. The organs of size, colour, idealny, &c., when mesmerized, brought up appropriate images in connection one with another, the transition being as quick as the movement of the operator's band. There appeared to be little or no sympathy between the operator and patient. The report which was highly interesting and creditable to its ingenious author, and which we regret we annot give at greater length, was corroborated by

Mr. do ephs, who witnessed the experiments, Mr. Atkinson, F.G.S. delivered an address on the history of phrenology more particularly of me-mero phreuology, remarking that in his opinion the new discovery would rival, if not celipse those of the immertal Harvey, that they did me t honour to Harvey's memory, who, instead of reviling what they did not, or would not understand, and following the example of his ignoble compeers, in heaping obloquy on what was above their comprehension, devoted their time and serious attention to the investigation of nature, the uncrying guide to truth. After some conversation between Dr. Elliotson, Mr. Ewen , Mr. Symes, and others, the president observed upon the interesting topics in the report of Mr. Ewens. He ridiculed the futile opposition made against the science by many for the novelty and boldness of your operation,

members of his profession; and said, as no man is a prophet in his own country, time alone would show that in this as in other instances, magna est veritas et prevalebit. The Duke of Marlhorough informed him—the president,—in a letter from Ireland that whilst at the Marquis of Ely's seat in that country, and strolling out in the morning, he came upon a very ferocious dog, chained in a farm-yard. His grace durst not approach this brute, but standing at a re-pectful distance, mesmerted him, and going up actually embraced the skeping brute. The dog remained in the sleep for thirty minutes

The meeting separated much instructed and anni ed.

ENLARGED TONSIES AFFECTING THE VOICE AND PRODUCING DEAFNESS.

Suc. Oct tratell WittiaM High-Sion, Aim; Surges, M. R. C. L. S.

A young gentleman, residing in London, of strumous constitution, nine years of age, was brought to me, delicate and pale. He complained of distressing symptoms, such as confirmed ton illary disease can alone produce. His hearing defective, the voice thick and nasal, and the articulation so indistinct, as to be almost unintelligible to strangers. The difficulty of swallowing, induced his friends to consult me. Upon examination of the fauces, I found that the tensils were very much enlarged, were hard and scabrious to the touch, and extending so far towards each other as to be within a line or two of touching. The nurcous membrane in a state of chronic inflammation. I prescribed friction of the ointment of Todide of mercury upon the external fances, and small doses of fodide of potassium dissolved in deet. sarse, concent., internally, also a rhubarb aperient, administered twice a week. powder, composed of carbonate of soda, rhubarb, and columba, given alternately, with the hydriodate of potash. The topical treatment to the tonsils were argentum Nitratum applied by a pencil-bru-h three times a week. In the course of a week, the tousils felt quite soft, and began to diminish very rapidly, they were 1educed to their natural size. I was anxious to give these remedies a fair trial before I had recourse to everyon. The effects of the combined treatment were most gratifying, and all the impeded functions were gradually restored, and the general health improved and enred in the course of a month. The persevering medical treatment and dietetic restrictions are of paramount importance in the management of enlarged tonsils, especially when they occur in youth. When these remedies fail, it is only then necessary to resort to the operation which is safe and painless.

ON OVARIAN EXTIRPATION.

In anywer to W. Jillen Assos, P. C. Surgeon, In onlarghour, 5 iffeld.

Sir,-In answer to the observations made by you in the Medical Times of last week. I have to acknowledge, that when writing the articles in question, I was actively engaged in the treatment of the cases; consequently, in my limited time for search, some recorded cases may have escaped notice; indeed. Thave since been made aware of this, through the kindne of Professor Simpson, and shall avail myself of every information, to place both operations on their proper footing, statistically, when I pubfish my additional cases, I have also be a made aware of unsuccessful cases, of the miner operation, which have not been recorded,

I can assure you, Sir, I have no wish to depreciate the merits of the operation, by the minor incision. On the contrary, I consider the medical profession much indebted to you, certainly a great improvement at the time, but as the profession of medicine, (like other sciences) is progressing, any endeavours to advance it should not be misconstruct.

Handbuch—Manual of Homoepathic Medicines, part 2, royal Svo. Leipz. 3s. 6d.—RAKITANSKY, Prof. Dr. C., Manual of Pathological Anatomy, II. Bd. royal Svo. Subser. for the 2nd vol. 18s.—

My opinion, respecting the minor incision, remains the same, as the cases in which it would be advisable, are so extremely rare, viz a large single cyst, perfectly free from any adherons, cocept the pediale. But the difficulty of diagnosing to such nicety!— even the dragging of the pediale, a circumstance which cannot be avoided, would be a serious objection. I believe, many might be induced to prefer your operation, from its apparently less formidable character; but if any adherons exited, they would find themselve, under a difficulty from which the larger incision alone could extricate them; and experience tells us, that few and far between are the cases without adherons (See Dr. Seymonn's Work.)

You admit the necessity of enlarging the incision, when adhesions exist. I think it far safer to make the incision large enough at first, to prevent any serious displacement, or injury, to the viscera by the dragging of adhesions.

Since the publication of my cases, I have been highly honoured by the favourable opinions of very many men of the highest standing in the profession, relative to the operation as practised by me.

I shall be obliged to you, or any other gentlemen, who can refer me to cases, successful or otherwise, whether published or not, that I may be able to give the operations their proper standing when compared with each other.

I have the honour to be, Sir,

Yours very respectfully, Chas. Chay, M D

Pocoddly, Manchester, Jun. 11-184

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PERISCOPE OF THE WEEK.

Leyden, 35s.—Green, Dr. H. Kritspolm Blatter—Critical and Polemical Essays on the Homospath Medicines of Professor Tochange, in Vienna, and the Prohibition of the Bavarian Government, 8vo. Carlsrate. 3s.—Brussler, H., Kritspolm Kinderkrankheiten—Diseases of Children, 8vo. Bertille, 13s, 6d.—Noack, Dr. A., and Tranks, C. F., deaths occurring at Strasbourg, I was found

on post-mortem examination, to be occasioned by cerebral hamorrhage, and I by apoplexy; by cerebral congestion, 4; cerebral and pulmonary congestion, 1; haemoptysis, 1; foreign bodies in the bronchi, 2; pulmonary congestion, 13; syncope, 1; perforation of the intestines, 2,—Total 26. We advise those interested in the progress of medical science to watch narrowly after simil a statistical tacks.

watch narrowly after similar statistical facts. Treatment of Phthisis by Proto Inducet of Iron. M. G. Boissiere, a pupil of M. Dupasquier at the Hotel Dieu, Lyons, has lately founded a memoir on 27 cases of phthisis, under the care of the last-named practitioner, and treated by the above medical agent. Of the 27 patients, 7 died before the remedy had had time to exhibit any very marked effect on the system, and only one case was discharged enred; though the improved condition of the icmaining cases appeared striking enough to M. Boissiere to warrant him in declaring "that the proto-induret of iron is the most efficacious remedy to which the physician can resort in the cure of phthisis.' M. Boissière has noted the symptoms produced on himself - a person in health-by the remedy. "Before taking the proto-ioduret" he says, "I examined the pulse carefully on three occasions, at intervals of ten minutes, and found that it beat regularly 75 times per minute. After a quarter of an hour from taking a dose of 25 drops of M Dupasquier's proto-ioduret (which differs materially from the inferior preparation formerly in use under that name) the pulse had risen to 81, and I felt some headache; after an hour the mouth was cool, and there was slight dryness in the throat; the pulse had now fallen to 80, but the headache remained. When the remedy is administered in small but gradually increased doses for eight or ten days, the sensations just noticed are felt in a permanent manner; after this the organs become accustomed to the irritation which is then little felt. The mouth and pharnyx may be the seat of burning pain with tumefaction of the mucous membrane, which is red and often covered by a small papular eruption; this state is often attended by loss of appetite, thirst, and a remarkable change in the sense of taste. In some cases mastication is completely prevented by the pain arising from the confact of food. This local inflammation is, however, rare; it occurred only four times in the 27 cases. - In one half of the cases, the patients suffered from nansea and vomiting on the first or record day of treatment, but seldom longer depending rather on irritation of the velum palati and nyula than of the stomach in general. The first impression of the induret on the digestive organs is slightly irritant; bu tolerance of the remedy is soon established, and it then acts as a tonic. - The vascular excitement appears to be proportionate to the weakened condition of the patient.—In a fortnight or three weeks, the pulse becomes more full and strong, and less frequent; the heat of skin subsides, and the patient is better able to resist atmospherie changes than he had been The patient's countenance becomes slightly florid the muscles and flesh get firm, and in some cases symptoms of plethora set in, accompanied, sometimes, by signs of local congestion in the lungs, the head, &c. In three cases the remedy gave rise to an affection of the skin-viz., urticaria, eczema, and lichen. During the first days of the administration of the remedy, the dyspnæa and frequency of respiration are increased; but after the first or second week they gradually decrease, and fi-nally disappear. The frequency of the respiratory act diminishes much more rapidly than the dyspnæa; the latter often remains when

duced to its normal standard. Still the difficulty of breathing is always removed, if we are enabled to continue the remedy sufficiently long to dissipate the congestion and effusion which surround the tubercular deposits.-The ioduret sometimes determines slight discharge of blood from the lungs, during the first few days of its administration; but this rarely occurs, and when it does happen the haemoptysis is slight, and disappears as soon as the tonic influence of the remedy is felt. In two patients admitted into M. Dupasquier's wards with harmoptysis the harmorrhage was promptly arrested by the ioduret; and this symptom was of much rarer occurrence in the wards of M. Dupasquier than amongst other patients who were not treated with the ioduret of iron. During the first few days of the administration of the iodnret, the cough is somewhat more frequent, the expectoration more abundant, but easier; on the fourth or fifth day these symptoms diminish in intensity. The quantity of matter expectorated is likewise considerably diminished; in a month it is often reduced by one-half, three-quarters, or even seven-eighths. In six of M. Dupasquier's cases, both the cough and expectoration disappeared entirely; in four the expectoration ceased after forty days: in the other two after the fifteenth day, The sputa, while diminishing in quantity became more viscid, and expectoration was aecordingly more difficult; but they gradually lost their purulent character. M. Dupasquier has observed the pains peculiar to consumptive patients in the interscapular region or walls of the thorax, yield within three weeks or a month; but the ioduret of iron never seemed to have any influence on pleuritic pains, or on those seated in the walls of a cavern.—Twbercles.—The physical signs of the presence of tubercles in the pulmonary tissue are-bronchophony, intense and prolonged expiratory sound, bronchial soufile, roughness of the vesicular murmur, dulness on percussion, and thoracie fremissement. It is evident that if all these signs disappear completely after the administration of the ioduret of iron for a sufficient time, we are entitled to conclude that the tubercles have disappeared, and that diminished intensity or extent of the physical signs indicates a proportionate diminution of extent or intensity in the tubercular deposit. M. Boissiere says," I have seen only six cases, in M. Dupasquier's wards, of crude tubercle, without caverns; in no case did I witness complete removal of all the signs above indicated, even on one side of the chest. In one ease no diminution of the physical signs occurred; but in the other five I detected some remarkable changes. Thus, in two pa-tients the expiratory sound and the bronchial southe completely disappeared, and the respiratory murmur was restored to its natural state; the other signs had not disappeared, but they had diminished more than one half in one of the cases at the end of two months, and in the other at the end of tifteen days. In three cases the intensity of the bronchophony had diminished one half at least; and the dullness of sound and fremissement were conally diminished. I remarked that the diminution of the extent over which the physical signs were observable generally kept pace with the diminution of intensity, and that it always took place from below upwards, commencing at the limits between the diseased and healthy tissues, and being more rapid in the lung which was least affected."—General Symptoms. -The most important of these are the gradual emaciation and loss of appetite, the gradual loss of strength, night sweats, and the evenloss of strength, night sweats, and the even-ing exacerbations. In three of the six cases is the opposition of the political party agreeing c. 123) for the regulation of Lunatics.

of phthisis in its first stage, already noticed, the night sweats and evening fever were absent; in two of the remaining three cases the nocturnal perspirations persisted for three months. but during that time they gradually diminished, and are now scarcely perceptible; in the third ease they disappeared entirely at the end of a fortnight. The ioduret of iron then exercises a beneficial influence on the cutaneous exhalation from phthisical patients in certain cases at least. But its influence on digestion and nutrition is much more evident. Every one of the patients (in a period varying from eight to tifty days) recovered their appetite: the weight over the epigastrium and febrile paroxysm during digestion ceased; the face lost its earthly hue, and assumed a good color; the emaciation, in some cases, ceased altogether; the softness and flaceidity of the flesh disappeared; and the muscular strength was restored. Several patients who had been admitted in such a degree of weakness as to be unable to stand upright or walk, were after some time enabled not only to walk about for half the day, but to take fatiguing exercise. M. Dupasquier's opinion is, that the isduret of iron is most efficacious in the third period of phthisis, or, at least, that its action is then most evident, and more so in the second stage than in the first. Constitutional is much more susceptible of benefit from the ioduret of iron, than accidental phthisis. In three cases of the latter, M. Dupasquier saw no good effect result from the use of the remedy. The chief auxiliary medicines employed by M. Dupas-The chief quier, with the ioduret of iron, are, Hoffmann's elixir, bark and the bitters, effervescing draughts, opiates, some vegetable astringents, and the pectoral drinks commonly employed to allay the bronchial irritation. The regimen which he enjoins is almost exclusively animal; he makes the patients clothe themselves warmly, and take as much exercise as their strength will permit.

INVERSION OF THE UTERUS .- Dr. Humphreys Storer was in attendance upon a woman in tabour, parturition taking place naturally. The cord was not touched, except to divide it, and remove the child. On putting his hand under the clothes to take away, as he supposed. the placenta, he found that he had hold of the uterus with the placenta attached. He removed the placenta and then returned the uterus without the slightest difficulty. There was a little hemocrhage when the afterbirth was detached, but none after the prolapsus had been reduced. The patient was very much prostrated, and for an hour appeared to be dying; she, however, revived, and ultimately did well.

The placenta was very large, and Dr. Storer states that, had he made any attempt to return it, in accordance with the advice of Burns, Dewees, and Gooch, he would have met with difficulty, from its mere bulk. This case proves that inversion may take place without the interference of the practitioner; no traction was made on the cord, which was of the usual length, and not encircling the child.-New England Journal of Medicine and Surgery, July, 1842.

MEDICAL NEWS.

IRISH MODICAL CHARITIES BILL -- Lord Elliot has announced that this Bill is to be postponed for another session. One cause is the almost unanimous opposition of the medical profession, which has shewn very great and

generally in opinion with the government, who are fearful that the new Bill might lessen country gentlemen's local influence. A third reason is the admitted failure of the present Poor Law system in Ireland: the consequent want of contidence felt in its head administrators is supposed (and we think with good reason) to disquality them for the additional responsibilities contemplated for them in the new act. It is said, however, that some member of the House, unconnected with the government, is pledged to introduce a bill which, it is hoped, will settle the question.

LUNATIC ASYLUMS.—The Lord Chancellor of Ireland, on Jan. 12, adjudicated on a most atrocious case of mal-treatment of a lunatic. The following is Sir Edward Sugden's narrative as given in court :- "I could hardly have believed that such an outrage on humanity, as is disclosed by the affidavits in this case, could have been perpetrated at the present day. A gentleman, of a highly respectable family, who is afflicted with insanity, was put under the eare of a committee of his person, Afterwards one of his brothers was appointed committee, and he placed the lunatic in a house in Cork; and, after having done this, he neglected all that personal practical attention to the circumstances of the lunatic which he was bound to have afforded. Now the jurisdiction in such cases, which I have derived from the Crownit may be delegated to any one, and I now exereise it on the part of the Crown-makes it the duty of the Court at all times to exercise parental care over persons in the situation of lunaties, and immediately to interfere in cases of the kind. This unfortunate lunatic was found by two gentlemen, who are magistrates in the county, and they immediately exerted themselves on his behalf; they, however, instead of entering into a correspondence with the committee, should have immediately communicated with me, and the business would have been promptly settled. So far from blaming them, however, for not acting according to the strict letter of the law, I am anxions now publicly, as I have already done privately, to express the obligations which I feel to them for their humane conduct. The lunatic was found by those gentlemen in an out-house belonging to the man with whom he had been placed, and from the state of the roof there was access for the weather and the rain; and, though it was in the latter part of the year, he was stark naked, his legs chained and elenched together, and fastened by a chain not more than two feet in length, without even straw, and not able, on account of his chains, to lie down in such a way as to rest himself, and without power to move beyond the limit of the narrow circle which the chain would describe. Such were the circumstances in which, through the inattention, to say the least of it, of his brother, the lunatic lived. If ever there is a moment when the care of one man for another should be anxiously exercised, it is when the other's power over his own actions is extinguished through his mental incapacity. A disregard for the comfort of those who are in this unhappy state, to falling into which we are all exposed, is most inhuman, and while we are free from it -thank God for being so-it is our duty to watch over those who are less fortimate. I believe it to be one of the first duties of every one as a subject to see that matters of this kind are investigated, as it is of the utmost importance to the country, in respect of the state of feeling existing in it, that regard should be had to the condition of persons in the situation of lunatics." We shall give, in an early number,

MARGATE.-It is now said that the late Sir Thomas Preece made his will three years ago, and bequeathed the whole of his property to St. George's Hospital, in London.—Kentish Observer.

ROYAL MEDICO-BOTANICAL SOCIETY.—Af the Anniversary Meeting, held January 16th, the following gentlemen were elected officers for the ensuing year :- President, Earl Stanhope; Treasurer, Henry Cope, Esq., Jun.; Secretaries, John Foote, Esq., Joseph Houlton, M.D.; Librarian, Edwin Saunders, Esq.; Conservator, Frederick John Farre, M.D.; Professor of Botany, office vacant; Professor of Chemistry, J. G. D. Rogers, Esq.; Professor of Materia Medica, George G. Sigmond, M.D.; Professor of Toxicology, John Charles Cooke, M.D.

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List of Gentlemen admitted Members on Friday, January 13th, 1843:-11. II. Corbould, F. D. Howell, J. I. Atkinson, R. E. Davies, B. H. Hutchinson, F. O. Barker, H. W. Reynolds, F. J. Burrge, T. F. Mc'Gauran, R. E. Lufley, R. Rudall, A. Featherstonhauch.

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COURSE OF LECTURES ON THE DIAG-NOSIS, PATHOLOGY AND TREATMENT OF DISEASES OF THE NERVOUS SYS-

Be MARSHALL HALL, M.D., FR.S., Fellow of the Royal College of Physicians, London, &c., &c.

(1 ECTURE V., Delivered December 12, 1842.)

Gentlemen,-In our last lecture we were considering the subject of nervous diseases in children, and I have now to call your attention to the subject of inflammation within the cranium; and I am well assured, that in private practice, inflammation within the cranium is not properly considered as the cause of disease. It arises in the first place from blows; in the second place, from a sudden stroke; and it may also arise from excessive mental application. The lamented death of Henry Kirke White arose from a cause of this kind. It arises from other circumstances, and it is generally considered to come on from suppressed menstruction: and it comes on in those cases in which the urine is albuminous. There is a fact detailed by Delamotte in a case of operation on the face; the unxiliary plexus of the nose was tied, and the consequence was inflammation of the posterior and the opposite hemisphere of the brain. You see from this enumeration of the causes of inflammation within the cranium that that subject is very obscure; and connected with the fact I have related to you, (for the case is not common) you will see that it will require the utmost attention to detect this disease early in its course. is another fact which makes it still more difficult to detect, that is, it is very often a very low kind of disease; a very insidious disease. For instance, a very interesting case came under the notice of Crnvelhier, in which the patient scarcely appeared to have any sense at all of disease. The young man would get up and sit near the fire, until at last the symptoms came on much more prominently, and the case appeared ultimately to be one of the most distinct cases of inflammation of the brain.

The first symptom of inflammation of the brain, is pain, in which case it is like arachnitis, which is more acute than inflammation of the substance of the brain itself. Having mentioned these two cases, arachuitis, and inflammation of the substance of the brain, it is important to state that we have no diagnostic from which to determine when it is one ease and when the other, and it is much more frequently that we find the two exist simultaneously. With inflammation of the membranes of the brain which affects the whole surface of the brain, there is inflammation of the substance of the brain, and this involves all the perves within the skull which are more or less unpaired; as these eases occur in the way I have noticed, I shall describe them together. Then we

flammation of the membranes of the brain as in arachuitis, and also from inflammation of the substance of the brain. Then pain is the first symptom of it, but it is not of an exernelating kind; it is rather dull. With pain there are other symptoms, such as intolerance of light, or intolerance of noise, and other symptoms denoting an augmented state of the faculties of the brain; in one word, it will give you an idea of the first stage of arachuitis or inflammation of the sub-tance of the brain. And the symptom of the utmost importance,-because it is exceedingly diagnostic,-is that of sleep. The patient does not sleep in the night, or is aroused by dreams and by starting. During the day there is no sleep, or if there is any sleep at all, it is merely a little dozing. No point is more important to notice in connection with disease of the brain. The next symptoms which come on are those of the spinal marrow, and this I noticed in the former lecture, speaking of intlammation within the cranium in infants. Very often we find a little spasmodic action, perhaps a little strabismus, which accompanies a little spasmodic action of an arm or one leg, or both arms and legs. It very often happens that in the midst of this state of things you have delirium. Now, where the delirium is violent the case is that of arachnitis generally. Much later it is not violent. It often happens in a state of falsa delirium, and in a state of half sleep, that there is coma vitor, and the eve gapes, and the eve stares. Now it is almost certain, in this case, that the power of the orbicularis palpebrarum is overcome by the power of the levator palpebrae, and this being almost solely a voluntary muscle, the contraction of the evelid is overcome by the voluntary action of this single muscle of the body. This I noticed when speaking of the excito-motor power. I cannot enter into that subject but very briefly, just to bring a fact before you. Very often we conceive that the levator palpebrae is one of the muscles under the influence of this power. Now with regard to the orbicularis we can easily imagine, as we know it is a muscle of voluntary contraction, that its action is produced through the medium of the spinal marrow. It is on this account the eye is closed. Now, supposing it to acc in an inverse manner, and that during sleep the eye is not closed. it is probable that the levator has some connection with the spinal marrow, as it is the only voluntary nerve in the brain. The gaping eye, as contra-distinguished to the closed eye will be diagnostic of a state of half sleep, which is one of the symptoms indicating diseases of the membranes of the brain.

You must have been struck with one circumstance in listening to this detail of the symptoms of inflammation in the brain, and that is, they are all of an exceedingly low order, and are not at all calculated to strike the eye of the observer ; on the contrary, they are not to be detected but by the atmost application of a spirit of observation to them. I believe I have stated three cases which I have observed at the early period of the disease, when the diagnosis is most important.

I just now want to draw your attention to a ease in which the diagnosis is of the most vital importance. I have described a case of inflammation in the cranium, consisting of a series of symptoms all of a low character. There is slight degree of pain, abhorrence of light and noise, the inflammation is slight, delirinm is slight, and every thing is slight. There is a disease which is execedingly common after confinement, in which the symptoms are precisely similar. But what is strange is, that the symptoms are tenfold more violent. Those who have seen much of midwifery practice, will bear me out in stating that it often bappens four or five days after delivery where there noticed, I shall describe them together. Then we is more or less loss of blood, that the patient it think of this case?" He said, "I think it is arachfuld that, sometimes, diseases will arise from intaken with violent shivering. Now I said nothing after inflammation of the brain," I said, "that is

about that with regard to inflammation of the brain. I do not say that it is not in connection with inflammation of the brain, but I say it is so decided that I know of no other disease where it is so. With violent shiverings, then you have headache of the most intolerable kind; and everaciating intolerance of light and sound. It is in such a case when you enter the sick chamber that you find the blinds down, the bell of the house prevented from ringing, the knocker fied, and the street strewed with straw. These things indicate a degree of intolerance of light and sound, and as I have said elsewhere, this is followed by violent shivering and violent headache. This disease is very common, and though it is so common, it was, I believe, until lately, called inflammation of the brain, and treated as such. I am persuoded that the want of a proper diagnosis has led to many errors of this kind.

It is by the very violence of the symptoms that you are to deterimine your diagnosis, and I always say, whenever the symptoms are slight and come on in the slow form, and in an insidious manner, you should suspect inflammation; and whenever the symptoms come on in a more violent manner, suspect that the case is different from inflammation. Now then, let us see how to determine the case when the symptoms are so dissimilar. When the case is slight, it is inflammation, when the symptoms are more violent, it is different. If you cannot discover any other diagnostic, the diagnostic is not altered by use of a particular remedy. That re medy is blood-letting. In the case of arachnitis I need not tell you the remedy is blood-letting, and if you do not bleed freely the patient will die In the other case, I believe blood-letting should not be used. But appose you cannot determine the diagnostic. If you are quite satisfied from your diagnostic that it is not inflammation of the brain, then I have not another word to say. Now I will mention two cases that occurred the very same week, more than two years ago. I was called to a patient in Guildford-street. He was attended by Mr. R .---; he had a very slight degree of pain across the brow, a slight degree of restlessness, and helplessness, and a slight degree of intolerance of Fght and sound. The symptoms were exceedingly slight. We came to the conclusion that it was inflammation of the brain. I said let him be raised perfectly apright and bleed him, This was done, and ten onnees of blood flowed. He did not turn pale, and Mr. R——dared not proceed farther. This was done on the first day. I went the next day and found the same state of . things :- precisely that of coma. I said, "why not bleed him to syncope?" Mr. R—— said "we dare not?" I left the room saying, "let the same thing be done." On that day twenty-tonr onnees of blood were taken, and the patient never fainted. On the third day the same thing was done, and twenty onnces of blood were taken; but that did not produce any fainting. On the fourth day eighteen ounces of blood were taken, and the patient fainted, and did not require to be bled again. I believe such a loss of blood could not have been borne had there not been decided inflammation; at any rate, I tell the fact to you, that the patient was well from that moment, and required no further blood-letting; and what I think important is, he did not suffer from the remote effects of the loss of blood. By that I mean that in many cases in which blood is lost by the system in the course of a certain number of days, there are throbbings of the heart, and the arteries, in the head, and so on Such effects did not occur in this case. In the same week I was called to another patient, the wife of an eminent practitioner. I said to the husband, "what do you think of this case?" He said, "I think it is grach-

not my opinion. I do not believe there is any such the phenomena accounted for. Then with regard malady here: I should tell you there was a very deronged state of the alimentary canal; there was an exernciating pain in the head, and intolerance of light. I said, "I will tell you what you should do; you should go up, and bleed the hady until a state of syncope is produced." He replied, "yes, I wanted your sanction." I said, "I give it to you," and while he was gone up stairs, I wrote on a bit of paper, "the patient will faint before she has lost nine ounces of blood." She did so. Now that patient suffered from loss of blood; and that patient was a good many days in recovering from the remote effects of the loss of blood, though it was a very slight loss; whereas, the other patient, whose constitution was very strong, lost eighteen ounces, then twenty-four, then twenty, and then eighteen ounces of blood, on successive days, and never suffered in the slightest degree from the remote effects of the loss of blood. I am quite certain that I recommend a very safe measure when I recommend bloodletting: invariably putting the patient in an upright position. As I said before, you may mistake the symptoms: you may suppose there is inflammation when it is irritation,, and you may mistake this for inflammation, and the more so because the symptoms of inflammation are insidious, but the symptoms of intestinal irritation are not slight nor are they insidious, but they come on with violent shivering, excessive headache, intolerance of light and sound, and very frequently delirinin. In such a case as this you will take a larger quantity of blood in the severer symptoms, and a smaller quantity in the lighter. whereas, it should be just the opposite.

I must lead you, then, now to the second stage of the disease, and, as I said before, with regard to children, the second stage of the disease is the very opposite-the antipodes of the first; whereas in the first stage the symptoms are excessive, now in the second they are slight at first, but more and more severe ultimately. There is an obtasion of the senses, so to speak a mate of contatose insensibility becomes coma, and a state of half delirian becomes stuper. The patient now begins to experience intolerance of light. Now the patient, y a observe, gradually becomes blind, and instead of more intelerance of light, there is very often blindness. Look at the pupil, it is contracted in the first stage, and diluted in the second stage. I consider the symptoms all of the same kind. I mentioned in the first instance, there was a disposition to spasmodic affection; instead of spasmodic affection you have, in this case, paralysis: there is some change that takes place which changes the state, that in the first instance produced spann, into one that produces paralysis. must explain the meaning of these two terms, and I will put to you an inter-ting phystological, and not an uninteresting practical question. I told you in the previous lecture, that lacerate the brain as you please, you cannot produce spasmadic action, nor in inflammation of the brain, will you have spasmodic action. There is not a more diagnostic mark of the softening of the brain, than the rigidity of the extremities. Now, then comes the interesting question:—As it is impossible by any almasion of the substance of the brain to produce any -parmodic affection, how is it that you have spasmodic action in the region of the brain? La that case of affection of the brain call I ramollis ment, this very rigidity takes place, from a more affection of the brain itself. In every case of ramollisement, especially in the first stege, there is tumetaction. Now, therefore, the fact of pressure will produce spasmodic action. You remember the case mentioned to you where pressure on the medulla oblongata produced spa-modic action, and in another case, a protuberance pressing on a nerve, produced spasm; and there was one case of promberant disease, which, affecting the spinal merrow, produced spasmodic action. How do you account for this in the state preceding that of ramollisement; In inflammation, generally speaking, you have a state like that of tumefaction, and the organ is too large for the cavity; then, inasmuch as you have tumefaction producing pressure, that pressure will produce spasmodic action. Here, then, you have

to the paralytic state, paralysis arises from the pritation of the organ staclf, and, as in the preceding state to ramollisement, you have spasmodic action and tumefaction, in the second stage of ramollisement, you have paralysis. In fact, every thing in this stage is paralysis. I have told you about the state of delirium passing into a state of coma, intolerance of light, and partial blindness, intolerance of sound, and partial deafness. So the state of undue sensibility passes into a state of entire insensibility. In the state of insensibility some very interesting phenomena occur, com-bining a very interesting practical point. In connexion with this point, I will detail to you a short case. I was called a short time ago, with several friends of mine, to see a poor man labouring under the symptoms of the second stage of inflammation in the brain; he was in a state of coma, and he was perfectly deaf to many questions I put to him. I cried out to him to put out his tongue, but he did not do so. He was perfectly unconscious, and agouizing pain was written on his brow. I said, "what can this possibly be?" Here is a point I want you to attend to. come to it. In this state of half sensibility, the patient was not conscious of the natural wants, and therefore the bowels were insensible; the bladder was overflowing from being distended. Now the fact is this, the patient being unconscious, or in a state of things of half consciousness, or not conscious to such an extent as to allow of the acts of volition, and to void the bladder, the bladder being excessively distended, there is an extreme disentegration of the forces from the sphincters, and therefore the urine flows from the violence of that disentegration. There is often pain under these circulastances, and it occurs in the case of typhus fever, and in common fevers. Invariably if you put your hand on the region of the bladder, you will food it to be full, and you will perceive a perceptible difference if it he empty. This man must have been suffering under the effects of a distended bladder; distended o far as to produce inflammation, and in this case recovery quite impossible. The otherer was proposed. and the symptoms were relieved, and the agonizing pain written on the brook was immediately removed. Here is undue sensibility, the very opposite state of things to what occurs in the first stage. Whereas in the first, all the functions were raised, now they are all in the lower state of insensibility. In this state of things, you are often called upon to see a parient, because, as I told you, the first state of things is insidious in it action, and its progress is slow. In the lower ranks of life especially, it passes on unnoticed. and then the second stage comes on before anything has been done to avery the symptoms of the You are called upon to witness such a casas that, in which you have compace insensibility passing into a state of count; there is no dehrlum, but a state of dozing : there is no abhorconce of hearing and seeing, but on the contrary, there is deafness and blindness. Every symptom in this state denotes a state of the brain such as that of unusual in ensibility.

Here, then, you have the two first stages of the disease. I come now to the third stage, and all that I can say with regard to this is, that it is one which is severer still than the second stage. The coma is severer still. It is very often that in this case you observe paralysis, paralysis of that very acia, that was not previously contracted. Not only is there paralysis, but you observe a mucous substance infuling it all into the broughial tubes, and causing an accumulation in the intestines. There is a low sinking state of the system, and now not only does the urine pass involuntarily, but the bladder is more and more disturbed, and the intestimes are more and more discended. Another symptom is that of a state of oblivion. That which was accelerated in the first stage becomes low in this, and the symptoms are followed by death. There is little suffering in this case, which is a thermometer as it were of the progre, of the discase. There is a curious circumstance con-nected with this sinking state mentioned by John Hunter, and he calls it a state of dissolution. nected with this linking state mentioned by John Hunter, and he calls it a state of dissolution. Now it cometimes happen: that there is exerucive ample, the alegena, the rerefilla, the pennatula, and

ting pain in the case of hernia, and that the patient becomes altogether easy, all at once, all of a sadden, and if you are not immediately called in, you may give an erroneous prognosis. Lattended such a case, and I saw the patient suffering from agonizing pain. Another practitioner who had been there before, had given a dose of calomel and this was followed by apparent case, and every symptom seemed to be relieved and the pain gone there was nothing to excite alarm. I left, and the next morning I heard with horror that the patient was dead. In fact, the state of cessation of pain was the sinking state, the patient lost all pain from was the sinking state.
(To be Continued

ON THE LAWS OF THE DEVELOPMENT OF ORGANS: OR TRANSCENDENTAL ANATOMY APPLIED TO PHYSIOLOGY

Pu F. R. A. SERRES, Mondey of the In time, of the Academy of declarate, Pr. fes. of 1 the Mir cannot Natural History, Paris 88, 30, 30, 30

Summary. - Inalogy between the monstrons productions of certebrated animals and the permanent organic state of the invertebrata-Influence of the modifications induced by the metamorphosis of animals in the production of species among the interfe-bratu—Esperiments of regeneration in the earth vorm—Formation of the Intpodes, the vorticella, the ratelling, Se. - P smatten of the shell of the aceres, of that of the limmens ovalis, and of the bivaleular shell of the isaura cycladoides-Mutual relation of organogeny and of mogeny as evidenced in the anatomy of the cirripides, considered as permanent embrgos of the craw-fish.

The organization of the invertebrata is thus, when considered in its true light, but a reproduction upon a fixed plan of those organogenic data which we find it so difflent to determine in the changing embryogeny of vertebrated animals. With the former as with the latter, the organisms pursue an ascending course, and become subjected in this progress to the same laws of development. Like the vertebrata, the superior invertebrata traverse, during their periods of formation, the permanent organisms of the inferior invertebrata; so that these latter are, as it were, but the permanent embryos of the former. Observation or experi ment will be still more decisive in the invertebrata than in the vertebrain; for that which in the latter takes place internally, and with a rapidity which renders observation exceedingly difficult, is in the former executed exactually, and most frequently with a slowness which permits the observer to calculate its stages, and even to measure its variations. From this parallel progress of the organisms in the vericlinate and the invertebrate, springs a most singular and anexpected result. Whilst, in fact, in the vertebrata, the organic metamorphoses influence only the organisms, which are the seat of these changes, without altering or affecting the species or family, in the invertebrata, on the contrary, but especially in the lower ones, each metamorphosis, each transformation gives birth to a species, to a family, to a new genus. The genera, the families, the species, limited in the vertebrata, thus seem to be without limits among the invertebrata: a curious fact, the cause of which most probably depends on the parasitical life of the embryos of the vertebrata as opposed to the free and independent lite of the greater unmber of invertebrata. The comparison of these two species of life will moreover direct us towards the conditions of the aterine life of man and the mainmitters, and may perhaps throw some light upon the cause of the abortions, so irrequent in the human spacies.

We may remark that, in the invertebrata, life is freely performed with organic conditions, which we should denominate as monstron; in the vertebrata, for, in fact, the invertebrata are frequently but living monstrosities, if compared with the perfect vericlarita. Thus part of the polypi, and some infusorial unimals, are anenteric, or devoid of intestinal canal, similar to the moles expelled from

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There are some vorticella among the infusoria. acephalous monsters, devoid of that which is denominated the head, among the invertebrata. Λ great number also, even among the higher classes, are destitute of a heart. These mutilations, these deprivations of organs are incompatible with the external life of vertebrated animals. An acephalous being devoid of a heart, or even of a part of the intestinal canal, dies on coming into the world; but before birth, it has a life of its own within the aterns: it has passed through a peculiar form of vitality: in a word, it has accomplished the life of an invertebrated animal. We all know that before birth, mammiferous monstrosities are endowed with life in the womb; but a fact less generally known, and hitherto scarcely regarded, is that there exists for these monstrosities a scale of uterine vitality, - a very important circumstance in a philosophical point of view, since it proves a species of independance in the being during embryonic life. Thus a fectus devoid of a limb, will bryonic life. Thus a feetus devoid of a limb, will live longer in the uterus than one destitute of a heart and a head, as this latter in its turn will perish sooner than one in which the head only is wanting. These facts, in which science is already so rich, might, physiologically considered, tend greatly to clear the disputed question in anatomy as to the vascular communication between the mother and the infant. Suppose, that this communication does exist, do we not see that its cessation, or the natural detachment of the feetus, should take place at the same period, whether this production be monstrons or not? What can the mulformation of the forms have to do with this communication, if embryonic life be but a sort of grafting of the infant upon the mother? If, on the contrary, in embryonic life, the infant enjoy a species of independence, we may conceive that the mulformations, or diseases, with which it may be affected, by abridging its life, must necessarily influence its expulsion, since a dead body cannot remain long within the womb of the mother.

We may, by the foregoing facts, judge of the influence necessarily exerted over the progress of organogeny, by the comparison drawn between the permanent organization of the invertebrata, and the transitory organization of the embryos of the verrebrata; but f will give still further examples of ir importance. The successive gradation of the organisms in the embryo of man, and of the vertebrata, is one of the facts which has been especially contested in organogeny. Most are inclined to consider the embryo as an exact miniature of the perfect animal. Now, this question, so diffi-cult to pursue in the young embryo, is repeated in the invertebrata under conditions the most favorable to its verification. Thus the earth-worm, arrived at the term of its development, differs wreatly from the polypus, the tania, the belianthoida. and the arenicola: but when we follow its various metamorphoses, we find that it is in the first stage a mere reputition of the polypus—in the second, of the tania-in the third, of the helianthoida-and in the last, of the arenicala. What is also remarkable, is, that by experiments in regeneration, we find the counter-proof of this successive elevation of the organisms of the earth-worm; for in these experiments we make them descend in a manner imilar to that in which they ascended in their natural development. Thus the first regenerations reproduce upon the new segments, the structure of the arenicola—the second, that of the helianthoida, while the third and fourth give rise to zoonites of a structure similar to the polypus; for the force of reproduction becomes weakened and exhausted by its action, in the same way that the reproduction of the organic tissues of man is enfectled and exhausted by too frequently repeated a regeneration,

By repeating these experiments upon the earth-worm, I have been enabled to bear evidence to the correctness of those zoologists who have distinguished several species of this insect, and by a comparative examination, Thave become convinced that "these various species are merely arrested stages of development of the more clevated species or type. Species may then, in veriebrated animals, be merely the result of modification produced by a greater or less metamorphosis. The most elevated metamorphosis will constitute the ideal type of the genus-the most inconsiderable will form

lutions which confined to the organs, give birth to the various organic species described by compactive anatomy, will, when regarding the organisms, produce in zoology the animal species. It is clear that we must adopt the same views in the study of zoology, as in that of comparative anatomy. Now, what would be the consequence if, in tracing each organ, we confined ourselves in an absolute manner to all the differences engendered by each evolution? We should evidently be led to consider these different states as different organic species. Thus, supposing an organ to possess four principal evolutions, like the prostate in man, or eight or ten, like the human kidney, we should have in the human species eight species of kidneys, and four species of prostates.

That which we have avoided doing in comparative anatomy, by reason of the progress of human anatomy being opposed to it, is precisely what has been done in zoology, in reference to the lower animals. We have taken and described as different species, the various metamorphoses which one species undergoes while traversing in the natural order from its original conformation to the term of its development. Hence, their exaggerated mulriplication. I will illustrate this point by a few examples. When we trace, by the microscope, the development of the infusorial animals, we see these small beings successively clothe themselves with forms very different the one from the other: whilst some are arrested at the commencement of their development, others become transformed in their progress. At each step thus made, they leave their former associates beland; they traverse, as it were, to the bounds of their organiza-The kolpodes are the principal genns upon which I have been best enabled to follow this transformation of forms. Their oca, when first laid, are obscure moundes, buried in a colourless mucilage resembling the albumen of the egg; suddealy, this allaumen becomes streaked with small lines, to which the cra are attached by hila so slender, that it requires a magnifying glass of great power to be enabled to distinguish them. hillum is a sort of umbilical cord, by which the embryo of the kolpod receives its nourishment. Thus fixed, it develops itself, assuming the forms of the various species of monudes, then of the volvoces, and the gones. At the moment of its becoming detached, this is the holped encullus: a little later, we find it the kolpod renarius, which has successively clothed itself with the forms of the genera which are inferior to it. But all the embryos of the kolpod do not await this series of metamorphoses; many become detached earlier. Now, according to the period at which they acquire their liberty, these will be monades, volvoces, or gones, having their own individuality and life, independant of the group of associated embryos of which they made a part. The detached embryos become then species and genera constantly inferior to the helpod renarius, which is the highest term of their transformation. The changeable vorticella, green or white, in like manner, presents in its development similar transformations.

The evolution of inferior species by the metamorphoses of species more elevated, has been already glanced at, in the corticella, by M. Ehrenberg, who has also, by his able researches, reduced to their true meaning the numerous transformations traversed by the vorticella convullaria in the course of its developments. at its different ages, the embryo of this verticella differs so much within itself, that, according to the principles of differential zoology, it led Muller to consider each of its evolutions in the character of a distinct species, while Lamarck and other zoologists viewed them as the types of different genera. But M Ehrenberg has again reduced these genera and species, by showing that the characters which serve as their basis are merely the transitory forms of the rorticella convallaria. "I am convinced," says M. Ehrenberg, "that the twelve species of Muller, of the genus rorticella, are merely the different states of a single species, and that with these twelve supposed species, Lamarck, Schrank, and others, embryos arrested in their development. Suppose, have formed six new genera, that is to say, the ecclissa, the ridella, the kerobalanea, the urccolaria, tacea in the progress of formation; suppose also

the last species. Hence it follows, that the evo- the craterina, and the aplandar, which are all but different ages of the restrictia convaliarie. In the new genus, which I have described under the name of rotelling, I deall be enabled to show, that the numerous species which this singular infusorium presents, are all merely simple modifications of the species with eight rays which serves as the type,

Among the mallusca, it is in the genn accres, or gasteropodes, without apparent tentacula, that we lost perceive the slight bonds existing between the shell-mollnsea, and the naked species. It is in this gonns that we can plainly trace the formation of the shell, or testogene, for we here find all the stages of development of this species of protective armour, from its simple outline traced in the form of an entirely fleshy covering, up to a thick, solid, spiral shell, affording an ample asylum for the entire body of the animal Considered in reference to the formation of the shell, the species composing this genus may be regarded as permanent embryos, the one of the other. so that we can follow its development in them much better than we could do in the young embryos of any other molluscous animal. M Dumortier has made similar and not less remarkable observations on this subject. Tracing the development of the molluscous gasteropodes, he has ascertained that the shell of the limingus gratis assumes successively, in the course of its formation, the characters proper to the species beneath it. " At the same moment," says this ingenious observer, "the shell commences to form itself at the extremity of the embryo. At first it presents the form of the shell of the parella; but, growing daily, it passes by turns through the forms of the testacella, the crepidala, the ancyola. and the caborhon, and when the animal opens, it presents that of the succinea." Here then are five species of shells which are merely so many arrested points of the five transitory forms traversed by the shell of the *limnaus ovalis* during its development. M. Joly, while tracing the development of the bivalvular shelf of a new genus which he has discovered among the crustacea, and which he has named the isaura cycladoides, in like manner confirms the observations of M. Dumortier.

The greater the progress we make in the study of organogeny, the stronger does the conviction become that the differential characters of organized beings are owing simply to the same organisms being sometimes more and sometimes less developed. Are not the insects which have undergone but a demi-metamorphosis, stages of permanent arrestation of those insects which have passed through a total metamorphosis? Are not the former advanced embryos, as it were, of the latter? By tracing, for example, the embryogeny of the hee, do we not see the division of its rings, at first in the state in which they are presented by the hemiptera, then in that offered by the orthoptera, and lastly as shewn by the coleoptera? Are not then the hemiptera, the orthoptera, and the coleoptera, in this respect, permanent embryos of

In applying this principle of zoogeny to the crustacea, let us choose as an example the cirri-pedes, the most difficult of classification among the invertebrata. Ranked by some with the echinodermuta, by others with the methusea; come-times with the mineliala, and at others with the crustacea, these little beings have been to classitiers, a constant source of perplexity. Now, what is remarkable, is that the imperfection of their organisms justifies all these conclusions; and not withstanding the able researches of which they have been the object since the time of Poli down to that of Cavier, Thomson, Burmeister, &c., the anatifa, and the balance, still wander from class to class; so that these animals have yet to be assigned the place which they ought definitively to occupy. Whence ari es this fact? What can be the arrangement of their organisms, that it should allow their being classified, by some so high, by others so low? Will organogeny explain to us a contradiction so striking? It will explain it by its ordinary proceedings, if the cirripides are embryos arrested in their development. Suppose,

that this formation is arrested at a fixed period. is it not evident that their organisms will bear the stamp of this arrestation? Is it not also evident that you must class them, higher or lower, according as you take for the basis of your determination a more or less undeveloped organism? Now, this is exactly what occurs. Without stopping to justify these different classifications, I will show that the cirripedes are merely permanent embryos of the crustacea, by drawing a comparison between their organisms and the embryogeny of the crawfish. I shall, on this subject, lay the valuable researches of M. Rathhe under contribution. The five pieces of which the shell is formed in the anatita, the three pairs of jaw-bones, the divided state of their alimentary tube, the dorsal position of the amis, the enlarged vessel which represents the heart, the curved position of the body, not yet articulated, and furnished with paws, lastly the nervous system represented by a double chain of ganglia, these are the prominent characters of the cirripedes, and hence arises the unharmonion-ness of their structure. If the arrangement of the shell induced Cuvier to approximate them to the muscle, that of the nervous system was a stronger justification for M. Martin St.-Ange in comparing them with the amelida. Now, by combining these conditions, we shall find in a permanent state in the cirripedes, those organic conditions which are merely fugitive and transient in the embryo of the craw-rish. Thus, at the second and third stage of its development, the bony covering of the craw-fish resembles the shell of the anatifa; the embryo is doubled up, and enclosed within it, as in the cirripedes. At the same time, its in-orticulated body is furnished with paws—the heart is represented by a dorsal vessel—the branchies are in a similar position—the alimentary canal is divided—the anus is situated in the dorsal region-the mouth is composed only of three pairs of bones-lastly as in the anatifa and balanea. the nervous system represents a double chain of ganglia, situated on the sternal bone, as described by M.M. Andonin and Milne-Edwards. Suppose that the craw-fish becomes arrested at this period will it not, in all respects, resemble the anatifa? Would not the organisms then present an almost perfect analogy? But whilst the cirripides re-main permanently at this period of embryonic formation of the crustacea, the craw-fish runs through its developments, having behind it the animals whose characters it had transiently as sumed. The circipedes then are embryonic crawfich or crustuseus

This conclusion leads to another; for, if at a given period the embryo of the craw-fish reproduces the condition of the organisms of the anatria and balana, we see that the zoological views entertained as to the circipedes, are equally applicable to this embryo. Now, as the cirripedes have by some been ranked among the eckinodermata. the annelida, and the mollasca, the embryogeny of the craw-fish must reproduce the echinodermata. the mollusca, and the annelida, to the same degree as the analifa and the bal ma. I may further remark, that as the embryo of the craw-fish traverses, in its developments the organic conditions of the cirripedes, which me its inferiors, so do the analifa and balanca repeat, also in a transient manner, in their formation, the oscabilona and the patella, which, in the zoological reals, are placed far below them. There is, as we shall see, a continuous chain of resemblances and of repetitions of organisms, which, in the word; of Geoffroy Saint-Hilaire, render almost indeterminable the zuological species.

Similar views may be drawn from the observations of MM. Carus, Dumortier, and Duges, upon the development of the anodonta, the gasteropodes and the eighthopodes. In comparing the transicut states of the organisms of these embryos of the mollusea, with the permanent organisms of the mollusea which are their interiors, we find in this class a repetition of the facts which have been just shown by a comperison of the anatifa and the balona with the different periods of embryogeny in the craw-fish.

Our conclution is thus fully justified—"000 eny is but a fixed and permanent organogeny.

SOME CURIOUS PHENOMENA OF ELECTRICAL INDUCTION.

g (Being a Lecture Delivered by Dr. Faraday, at the Royal Institution, on Friday, the 20th inst.)

MR. FARADAY commenced his lecture by stating that he hardly understood the feelings that came over him at these Friday evening meetings, for whenever he set about the preparation of anything which he thought might be interesting to his audience, he was always startled by the idea that he was about to deliver something which might be abtruse, and which, though it might seem interesting to himself, would turn out a very dull affair to them. He felt this on the present occasion, because although the subject of electrical induction ought to have a prominent place in the minds of those who were looking to electrical phenomena just now, when so many different hypotheses have gone out, and ought to be interesting to those he was now addressing-yet he felt it would be very dull indeed to them. It ought not to be so, because he was perfects satisfied that any part of experimental science must be interesting to those to whom it is put in the form of clear ideas; and therefore he appeared before his hearers with the object, partly to instruct, partly to interest, and partly to amuse them by some illustrations of the induction of electricity, hoping that the hearing these phenomena had on the present state of knowledge with respect to this great globe, would be not merely their apology, but their justification.

It was always necessary at these evening meetings to assume that there were among the auditory some who did not know anything of the subject. and therefore there was always the necessity of bringing them up, as it were, to the point from which those well acquainted with the subject treated of, started. Now although he was about to treat of the subject of electricity-that extraordinary power in nature, yet withal so common, as to be to some extent exceedingly familiar, through the general diffusion of even a small portion of knowledge of every kind over society, yet unless the utmost attention was fixed on the phenomena induced by this extending power, that which was of the utmost consequence to philosophers and to mankind generally, would be treated as common place matters. By the aid of the glass rod in his hand, he was able to evolve a most extraordinary power from matter, on matter, or in matter, for a careful man knew not how to express himself under such circumstances,-yet, he had the ability by the simple instrument in his hand, to evolve, or put into action a most extraordinary power not apparent before. He had before him some gold leaves enclosed in a glass jar, perfectly separated from any external mechanical action-nothing could go near them-they were so suspended at one end, that the other extremities could separate and diverge, and by applying the rod of glass in his hand to the electrical machine in which the extraordinary power on which he was treating resided to a high degree, he could take from it a specimen or portion of that power, and by bringing it into proximity with the gold leaves, but not touching them, could make them diverge. was but one illustration of the extraordinary power of electricity; that power on which every day, life depends, which is ever moving in and about us, and without which we could not exist; a power of nature, which therefore ought never to be uninteresting to us. Another experiment of an interesting nature was that performed by means of the common Leyden jar, and this was all of his summary with regard to this

It was his intention so to treat what little he had to say of induction as to draw some conclusion, as far as he could go, or rather to educe some general expression with respect to certain plu nomena of this kind, and which in nature we saw in the flash of lightning, the concersion of the air, and the electrical hock. It was strange, when we reflected upon the terrable effects sometime produced by this power, that we could enclose part of it in a jar, so as to render it perfectly ub ervient to us, to be used by us when we feetly ub ervient to us, to be used by us when we feetly ub ervient to us, to be used by us when we

pleased, and which we could bring into action when we liked; and produce precisely the same effect as the flash of lightning in the storm.

He would now advert to some particular properties of this extraordinary power, which, when put into action, manifested itself in various ways. There were certain phenomena of attraction and repulsion-though, perhaps, we were not quite sure about the matter of attraction, yet repulsion was certain, and in the minds, of some the other was doubtful. He would, therefore, speak only of appearances, and those appearances were the very host for the observation of small portions of this power. It must be remembered that in all experimental science, the smallest phenomena that could be manifest were sufficient, and were equal with regard to the inferences educed from them, to the phenomena of the most extraordinary magnitude. A lady, as she combed her hair, might frequently, on a dark evening, see sparks of light passing from the hair to the comb, thus affording to a certain extent, as correct a study of the nature of the flash of lightning in those small sparks as in the tempest or the storm itself, which in the open sea is so terrific. The velocity of the lightning, however, was the same in those small flashes which we could observe without endangering our life, as in the dreadful and territic storm. Now by a rod of glass he could take from the electrical machine, a piece or specimen of electricity which he could communicate to another substance, and this he called induction, or the induced action of electricity. This induced action exhibited certain very curious conditions on certain occasions, and he used two kinds of instruments for the purpose of illustrating this. One instrument was a very beautiful one, called an Electroscope which consisted of a frame of wood, in which was suspended, by means of a fibre of glass, a rod of shellar bearing at each end a gold leaf. was used because the electricity could not travel through it; and the shellae had the power of in-sulating or restraining the passage of the electricity from the gold leaf. The other little instrument was a very simple one, consisting of a rod of shellae with a gold leaf at the end, and by applying this gold leaf to the electrical machine, he could take a specimen of electricity, and then by bringing it into near proximity with the suspended leaves they were repelled. This was electric power in a very small quantity. This repulsion was owing to both bodies being in the same state, it being a law of electricity, that when bodies are in the same state, they repel each other.

Now induction caused the distribution of electricity on the surfaces of bodies. He would make this manifest by an experiment or two. He took a conductor of brass, mounted on a stem of shellac. and a metal jar mounted on its side upon a stem of glass; those he placed upon the table. Then, by means of a brass ball suspended from a string. he took a specimen of electricity and communicated it to the brass conductor, and he induced it again from the surface of this body, so as to cause the gold leaves in the glass to diverge just as they did when the electricity was taken from the large machine itself. The same experiment he produced with the other metal conductor on the glass stem. But to show that the electricity was only on the outside, he took a specimen of electricity from the machine and communicated it to the inside of the last-mentioned conductor, but from the inside of this vessel he could not again induce it so as to put the gold leaves in motion. He applied the metal ball to the outside, and there the electricity was, and he could now, by placing the ball on the outside of the conductor, and then bringing it near the gold leaves, can-e them to diverge. The electricity had passed to the outer surface, though communicated to the interior. There was none at all on the inside, but on the outside it was abundant. This proved that electricity was entirely on the surface, and that by electrical induction. This was further and better illustrated by taking a metal globe and hanging it up by itself, and also two hemispheres to g over it, and form what he termed an outside,

afterwards communicated to the electrometer, so that the gold leaves diverged. Then he covered the globe with the hemispheres, and the effect was transmitted to them. The electricity had entirely left the globe and gone to the hemispheres. observeity could be taken now from the globe to which it was first communicated, although at that time electricity could be taken from its surface: but it being covered by the hemispheres, so that they formed an outside, it had all been communicated to them because they formed the outside. Another experiment made this more forcible. He took a metal vessel not charged, and by means of a carrier, or metal ball suspended from a silken cord, he charged it with the subtle fluid, He communicated this to the interior, but the indicator could not thereby be affected; on applying the conductor, however, to the outside of the vessel, he tound that electricity was there, and its presence was made sensible to the indi-This was a conclusive proof that electricity could be only induced from the outer surface of bodies. This experiment would lead to the understanding of what was meant by the electricity of a cloud being on the surface. A cloud consisted of myriads of little conducting particles, all held together by some strange condition or power governing them all. The electricity was not to be found on the exterior of the separate partieles, but on the outside of the general mass. The metal radius, or an instrument consisting of a bomisphere with points radiating from its surface, illustrated this fact. This body could be charged with the electric fluid, but the central or the interior radius, did not manifest any signs of its presence; it was only to be found on those outside points which formed the circle or circumference of the whole. Again, he took a vessel formed of wire gauze perfectly open, so that in every part the light shone through it, and in every place the air could permiate through it. He charged it on the inside by means of the carrier, but on taking this out there was no electricity left on the inside; it had travelled to the outside, and there it was proved to exist. What was to prevent the electricity running through the wires to the outside? The inside and the outside were not the 100th part of an inch apart, and yet, though there was only this difference between the inside and the exterior, so that a mite would have to travel only half a second before it could get round, that which travelled at the rate of 100,000 miles in a second could not get round half the circumference which the smallest animalence in creation could go round.

It must be remembered that in every one of these illustrations, there was not a single phenomena in nature that was not touched upon in one way or another. Matters which might seem different, however different they were in their general character, the nature of all was summed up in one, and they were all subject to the same force and the same laws. Such were the general constitutions of the laws and forces of nature,

The experiments he had now to bring forward were to show the induction of electricity through air, and also its induction through other bodies, In the first place he inclosed some gold leaves in a jar, the top being open, and by means of a conductor he caused the gold leaves in the electrometer to diverge. On removing the conductor, the action did not continue, because it being only induced action, it could only remain as long as the induction lasted. This was induction through air, In the second place he placed on the top of the in a piece of glass, and the same effect was produced; the induction took place through the glass as perfectly as through the air. He then removed the glass and placed on the jar a plate of sulphur (it mattered not, he said, how thick it was, on the contrary, the thicker the better), and on the approach of the conductor, the gold leaves diverged just as much as before. Connected with this experiment, it was a strange thing that the electricity penetrated the sulphur with double the force with what it was induced through the air. The same action was produced by substituting a piece of shellact for the sulphur or the Now it was a strange circumstance that

as through any other substance, provided the conducting power of the metal was not allowed to come into play. In induction through metal there was no distribution of the power, but the effect was the same as through the thick plate of sulphur.

The next experiment was to show that electricity acted through air, and that too to a great extent. He had repeatedly taken a specimen of this power from different parts of the theatre in which he was now lecturing. In order to show that electricity was induced through the air, he had suspended against the wall of the theatre a silk handkerehief with threads attached, so that it could be drawn together and removed without its coming in contact with any other substance. Attached to the electrical machine was a large metal bell mounted, near to the wall where the handkerchief was suspended. The machine was then put in motion, and this bell charged with electricity. In a minute or two he removed the handkerchief which was charged with electricity as was made manifest by the electrometer. This experiment could be performed in the gallery or any part of the theatre; and, in fact, a specimen of electricity could be taken from the head of any one of the andience, and carried to the indicator in the same way as he had carried it in the handkerchief. Thus was this extraordinary power manageable, sometimes by the same condition and quality that it was unmanageable at others. It vas a property of electricity to produce the opposite state in everything that was conducting near it. In performing the next experiment, he took a slate or metal vessel and placed it on a plate of shorker, with a metal plate on that, and he then placed in that shell another, and in that another, and then a fourth in the last. These vessels did not touch each other, and yet there was a perfect action induced through all the shells, and all the electricity was on the surface of the inner shell, so that when that vessel was removed, all the electricity was taken from the apparatus. It had passed through the air to the metal, and was all on the outer surface of the inner shell. The same re ult would be obtained with a thousand shells. It was important to observe that not the smallest amount of power was ever lost in any of these experiments. It was an important thing to notice a fact which the mathematician would understand, that the sum of the focus was precisely the same under all circumstances. Dalton had illustrated this beautifully, in some chemical phenomena, where there was a certain definite chemical effect; and so in electricity, there was a certain definite action in all the variations. There was no adding to, or taking away from, the amount of power,

Great consideration was now being given to the condition to this earth, which was a globe electrified in space. In illustration of this, some striking phenomena were produced, which led to the question, "What is the state of this globe?" We were in the habit of thinking that on the surface of this globe on which we live, there was a certain action going on, that of repulsion. The vicissitudes and changes that were going on on its surface, did not tend to changes in its electrical condition. It must not be supposed that the most important electrical and atmospherical phenomena were exhibited in the thunder storm, for though electricity existed in the atmosphere, all things in existence partook of it, and it was manifested in the growth of plants which were continually and silently discharging electricity to the air. It was pretty sure that plants had this power, and that they were great lightning conductors. On electricity depended the health and the growth of plants; it was this influence that made them grow and become serviceable to mankind. On the other hand Beltier had, with respect to this globe of ours, given out a notion that was very startling, and which was quite in opposition to the views of philosophers up to the present time. This philosopher thought that this globe of ours on which we live, was in a highly negative state, and that space around us was in a highly positive state. It was worth a great deal to know in what state this globe was. It might be that space was in the opposite state, or what was more likely, that the induction took place as perfectly through metal objects in space—the planets, the sun, and the had been employed,

stars, were in a negative tate. There were some objections to the theory of Beltier, but there was no doubt the sun, the moon, the planets, and the stars were in one state or the other. Leaving this matter, he illustrated the effect of the lightning on the surface of the globe, by placing on an insulating machine a board, the surface of which represented the surface of the earth. He then placed on this board a small mouse, and then putting the machine in motion, directed some electric sparks to the board near the mouse; the little animal seemed to be no more affected by it. than by being a little alarmed at the suddenness of the light. The fact was, that although the animal was in a highly excited state, it was not at all conscious of it, and this probably accounted for our not being aware of, or not being physically made sensible of the presence of the electric fluid constantly surrounding us. We must not however conclude that the notions advanced by philosophers about the state of this globe on which we live, were all imaginative because we could not feel personally the effects of it. The condition in which we exist must be a very curious one, because the external state may depend on the arrangement of the electricity in the atmosphere, which we could not feel unless a spark descended upon us, as in the experiment with the mouse; the little animal was sensible of nothing but the vivid flash of light and the startling noise, because the flash was not directed immediately upon it. It was remarkable that there was no variation in the experiments on this subject. He had sought by a mirror placed at the top of the house to detect whether there was any difference in the direction of the electric flash, and he had invariably arrived at the conclusion that the induction was not in straight lines but in curved lines.

There was one very curious matter he must bring forward with reference to thunder storms and clouds. First of all there was clear light air, which was perfectly a non-conductor; electrify it as we might we could see no effect. Now the definition of water in a state of vapour, was to form a cloud above us; then this globe was a conductor, and the moment the cloud was formed and approached the earth, a kind of induction took place. These particles of vapour combined, formed as it were a surface, and the cloud took up the electricity. The electricity of a cloud he illustrated by a tassel of tissue paper on a rod about 12 feet in height, and on electrifying this rod, a most beautiful divergence of the tassel was produced. Now all the electricity in the tassel was found to exist on the extremities of the slips of paper, on the outside of the radius. It was a eurious circumstance, that a cloud consisting of watery particles charged with electricity did not break up, that these particles did not separate and fly off by the action of repulsion and become dis-tributed into space. The same power, however, might cause them to hold together; they might be kept in their united form by the induction of the air. How otherwise he could not conceive, from the nature of a cloud, it could hold together, and that the whole of the clouds did not distribute and make winds by their action. The electricity was then on the exterior of the cloud, as it was on the exterior of this tassel, in a state of divergence, but by taking electricity from the earth by means of a conductor, and applying it to the points of the tassel, the divergence was destroyed, and they collapsed. This was precisely the effect produced upon the cloud by the induction of the earth.

In conclusion, he hoped these few excursive observations had afforded to his audience sufficient interest to induce them to take up the subject with that attention its importance demanded, and at a future time, he hoped to be able to bring forward something more definite on the subject.

VALUE OF MERCURY IN SYPHILIS.-Mr. Bacot concluded, after carefully noting the reports from the British and other European military hospitals, that when increury was not used in the primary treatment of syphilis, the average number of secondary cases occurring was 1 in 10; but only 1 in 75 when mercury

CURABILITY OF CONSUMPTION.

(Confinited from page 262.1

In the Editor of the ' Medical fine:

SIR,-I have endeavoured to trace, however faintly, the outline of nature's plan for the cure or mitigation of consumptive disease. The more attafactory task now remains to point out the manner in which she may be successfully imitated by art. I desire, however, to make a few general observations by way of preliminary to this de-partment of the subject. From age to age, she has been inducating to medical observation the true and simple process of treatment in this destructive malady, unbeeded and in vain. A singular facility has persecuted the question from the dark days of Chiron, the Centaur, down to the present time : which, in these northern latiindes, boast of being enlightened by two great baminous bodies,—our Royal College of Physicians, and no less "Royal College of Surgeons. in whose collateral light move many wandering stars of various magnitude—from the charlatun of the sixth, to the physician ordinary or extraordinary of the first degree. And yet this spot upon our disk still remains in visible darkness palpable obscure-so for as any light reflected from these sources can enable us to discover. Our shelves are enemmbered with tomes, pondercus or light, and our poor brains puzzled with interminable disquisitions on its causes, varieties, and treatment: marly all these differing on every point but one, its incurability by art. The grave is the place of rendezvous where all these trameet. On the Continent, pathological research has thrown a dim religious light upon the abject, and taught Laconree and his disciples to expect a cure, by remedial art in certain stages and circumstances, and, by nature, frequently, The experience of that eminent innovator on es ablished prejudices led him, in the latter part of his life, to consider cases of care as extremely common. He felt assured that when the lungs were not completely disorganized, a cure ought not to be looked upon as impossible, either in reference to the nature of the disease, or the organ affected, an opinion appropriately prefixed to Dr. Ramadge's very original and practical work on Consumption. He mentions that on the shores of the Bay of Douarnenez, his native place, whither he retired in a state of latent phthisis, one-half of the consumptive cases were cured. Unhappily for science, this great man was cut off prematurely by the very disease he had so deeply studied. Had his opportunities of observation been on an equally extended scale as this great metropolis supplied to Dr. Ramadge, or had he survived some yearto mature his views, I entertain little doubt but that he would have arrived at the conclusions I have been endeavouring to describe, and adopted semider and less empirical principles of treat-

Fournet, who obtained the prize at the Concours of the Hospitals of Paris, for his clinical researches on auscultation of the respiratory organs, in the preface to his work, expresses the confident hope that his investigations may impress the influential classes of society with the salutary conviction that consumption is curable, and that an opposite opinion is not only burren but mischievous. Among our English writers on the subject, Dr. Carswell forms a pleasing exception to the desponding school of incurables. Permit me to quete the following appropriate contirmatery testimony from his pen:-

"The important fact of the curability of the disease has, in our opinion, been sati factorily established by Laennee. 12th the physical signs of accordar phthis is have been present, even those which and are the existence of an execution, yet the discuse and nated favourably, and its perfect cure has beer demonstrated by the presence of a cicatric in that partial of the bung in which the execution had . There must be tew practical particlogists who will not consider these anatomical facts as evidence that tuberen-

hightest degree, to invalidate the conclusion to taken away the stomach for the purpose of exwhich we have been led by the repeated observations of the changes we have described, viz. :-that (these changes are positive indices of the removal of the material element of the disease, and also of the cure of the lesions of structure to which it gives rise, even at an advanced period of its progress. We cannot avoid repeating that viscus. Mr. Kiernan, F.R.S. was present at the fact that pathological anatomy has, perhaps, never this remarkable discovery, and joined heartily in afforded more conclusive cridence in proof of the curability of a disease there it has in that of tuberculous

In these sentiments he is happi'y at variance with our other modern English writers on the subject. What a discreditable exhibition of the state of our medical science does Dr. Young's work on consumption furnish! He says, "It is a thousand of the disease would recover, and with more nearly the reverse. His preceptors and coadjutors at St. George's Hospital must have made a negligent use of their opportunities of autopsy, not to conduct him to sounder conclusions, and the time he consumed in deciphering Egyptian hieroglyphies, had better have been devoted to pathological research. Sir James Clarke charaeerizes his work as a monument of industry! Why did he not add, ill-directed? I question whether he ever took the trouble of opening a dead body. Had the scalpel been more frequently in use among the members of the College of Physicians, their character, hitherto, would have been more highly estimated. Pathology has been sadly neglected by them. Dr. Baillie's work on morbid anatomy has been appropriately designated by Mr. Lawrence as a mere catalogue of appearances, in which several important parts of the human body have been omitted. Having occupied a body have been omitted. wing of the old College, he had ample opportunities of becoming familiar with the purseum, of which he has been heard to say that the seats of a backney coach would contain all the preparations in it of any value. One of the Curators once observed that any person of moderate industry might accumulate as good a collection in a couple of years. The sums expended by the College on its festivities, before Dr. Baillie made them a present. of his preparations, as it were, out of charity, would have been more judiciously employed in purchasing morbid structures of the human body illustrative of obscure diseases.

As to Dr. Baillie's work on morbid anatomy, a very cursory perusal will show to any one at all familiar with the subject, that he did not pay due attention to the most ordinary post-mortem phenomena of diseased lungs; for instance, he takes no notice of the semi-cartilaginous cicatrizations which are so very common, etc. For a long series of years, there were no dissections of the human body either at Oxford or Cambridge. The anatomical Museum at Oxford was of such slight consideration at a recent period, that its locality, as well as I can recollect, was in an attic. Facts such as these in some degree account for the erroneous views relative to phthisis, too long prevalent in this country.

The late Dr. T. Davies-whose position as junior colleague to Dr. Ramadge, for some years, at the Infirmary for diseases of the clost, apparently entitled his dieta to respect,-was a zealous apostle of the doctrine that consumption is incurable. It may not be amiss to state that the charge I have already made against our physicians generally, was but too applicable to him, as during his connexion with the Institution, he did not attend more than one-half the time, and for the last ten years the term of his visits soldom extended to half an hour. The burried manner in which, as a necessary consequence, be must have examined his patients, was not only commented upon by them and the matrons, but rendered it impossible that he could derive any sound practical information from his The following ancedore, may intimums practice. not be uninteresting. He was requested on one occasion to resexamine the body of a person who

ambing it minutely, and analysing its contents, as it was suspected the deceased had taken poison. Notwithstanding this, Dr. Davies discovered, it appears, another stomach, which he pronounced to have been in an ulcerated state!!! in fact, he mistook a dilated portion of the large intestines for the laugh it raised afterwards at the doctor's expense, and, as a purturbed countenance indicated, by no means to his satisfaction. To stamp his authority with double weight, he was in the habit of stating that he had been long a pupil of Lagunce, whereas, I have been indirectly informed, through that skilful and intelligent physician at Camberwell, Dr. Caldwell, that such could not have been probable that, without assistance, not one case in the case, otherwise he (Dr. C.) must have been cognizant of it, having resided in Paris and the utmost power of art, not more than one in a 'attended Lacanace for many years, including the bondeed will be found curable." The facts are time specified by Dr. Davies. I was not a little puzzled in perusing an article which he communicated to Dr. Townsend, to reconcile with credibility or consistency the Tabular statement therein given of several cases of empyema successfully operated upon by his directions, the proportion of cures to deaths being as four to one, a proportion not before or since boasted. I believe, by any practitioner. In the majority of instances, empyema is a consequent on phthisis. If the latter be incurable, even when uncomplicated, how can it be cured in this highly complicated form? or is it to be taken for granted that all these successful cases were unconnected with phthisis. This would be reductio ad absurdum in good carnest. Laennee very justly remarks that this operation, paracentesis, in cases of empyema, is rarely followed by success, owing to various causes not generally well understood. One is the bad condition of the lung itself, being frequently tuberculous; another, the admission of air into the chest, producing irritation on the surface of the pleura, and carrying off the patient by a great and offensive discharge; and a third is the compression of the lung against the spine and mediastinum, and the nature of the investing false membrane, which, from its tendency to become converted into fibrous tissue, is a great obstacle to the dilatation of the lung. In the face of these obstacles, however, this lucky physician claims the merit of having succeeded in the proportion above named! So far as the infirmary practice was concerned, I can give the following facts:-Two cases were seen there under treatment by him. One was a boy 10 or 12 years old, an out-patient, who sunk mider a fetid and exhausting discharge in the way described by The other, and only one operated Laennee. upon in the infirmary by his directions, was an interesting young man, named Thomas Beamond, who was admitted on the 12th November, 1833. He had previously been under the care of Mr. Septimus Reid, of Jewin Street, who could testify to the very favourable and satisfactory state of his general health at the time of admission. The operation was performed by the individual mentioned by Dr. Davies, as having under his orders achieved great success. The result subsequently was, as Mrs. Hine, the matron, can corroborate, that reduced to the lowest conceivable state of exhaustion by a constant, irrepressible, and int derably fetid discharge, he was removed to his own home, where he shortly after expired.

A little boy, named Moses Dacosta, aged nine years, residing with his parents at 14, Sheppard Street, Spitalfields, a supposed case of empyema, was admitted as Dr. Davies's patient on the 30th May, 1839. Having first been put under a course of mercury for more than a month. with the view, I presume, of removing the effused third by absorption, he was about to suffer paracentesis from the successful (?) operator installuded to. The boy's mother, however, at the instance of Mr. Garcia, her usual medical attendunt, whose advice she asked, referred the case to Dr. Ramadge. This physician upon exami-nation, ascertained that it was not a case of these anatomical facts as evidence that inheren-bous phthisis is a curable disease. No objection has been broad by ferward, calculated, in the Place, and another practitioner, and they had right lung. The operation of course was not

performed. Mrs. Gordilier, the present matron of the infirmary, had frequent opportunities of seeing the boy previously, and remarked his progressively declining state. He was then placed under Dr. Ramadge's care; his constitutional amptom, gradually yielded to remedial treatment: the cavity, after some period, was oblite-roted by the expansion of the lung through artificial means, and he is now in the enjoyment of excellent health. He has been seen and exsmined by Dr. Holl of Peckham, Dr. Parkin of Torquay, and Drs. Fitch, Newton, and Hull, of Philadelphia; all of whom were attending the Infirmary; and also by myself and many others.

The state of the s

In his lectures, sub equantly published, Dr. Davies has given the name of another practitioner, who he states, was snocessful in several cases of paracentesis for empyema, under his anspices. Perhaps the following was one of these auspicious cures. —A boy, named Cailly, residing near Finsbury market, was pronounced by Dr. Davies to have empyona, and to require the operation. No time was allowed for the chance of a cure by absorption, which is not uncommon, or by one of those rare accidents where the matter makes its escape by pointing exteriorly. Arrangements were forthwith made for the paracontesis. A vessel was placed in situ adones to receive the expected matter, and the practitioner referred to, being in a favourable position to admit of its exit, made an attempt to introduce the trochar. Encountering, howcver, some unexpected impediment to its entrance, his courage failed him, and maugre all the encourage ragement he got from the Doctor, he declined persevering, and it was abandoned. Yet the boy got well, and no doubt had a fortunate escape, Was this one of the successful operations? haps the gentleman in question may still have some slight recollection of it; if not, I could refresh his memory by reference to a medical confrere who was present on the occasion.

Inquiries were diligently made respecting the cases under the two practitioners alluded to, in which this success was so unprecedented, and two handsome donations offered to the Infirmary, on condition that the statements should be substantiated. This condition was never complied with, and the donations of course were not made to the institution. The foregoing observations supply their own comment; they show that the authority of some of the most decided opponents of the curability of consumption is of little or no value, and I would conclude by saying. co tis,

ilisce plures.

When medical men make up their minds to despair of success in the treatment of consumption. they do much towards rendering it really despe-rate. I grieve to think how many are left to perish who might be saved were proper efforts made by professional advisers. The associations that surround this subject as it has been left for ages, are truly melancholy. Hitherto it may be said of consumption, with its wide embracing arms. as of the greedy sea, "Thou hast treasures in thy bosom—the beautiful—the brave! Few indeed are the families that do not at one time or another mourn over bereavements from this formidable disease. Beauty's fairest flower cannot charm its eye, nor the proudest strength of manhood arrest its progress. The tongue of elequence is mute in its progress, and the five of genius turns pale and expires. The sighs of weakness and the from us of power are alike disregarded here;

-Cliquo pulsat pede pauperum tabernus Regumque turres.

It larks in the abodes of the poor, boldly lays siege to the thrones of monarchs, and claims as its own at least one-fourth of the domain of luman life, even in this land of science. We have too long silently acquiesced in the usurpation. But the advance has sounded in the ranks of physic as well as surgery. Let us take for our motto, "nil des-verandum" and do our duty. The cheering conviction will soon arise from the result of successful efforts that we have yielded too much to imaginary fears, and that this great economy of life is neither invulnerable nor invincible.

Discipilias.

VARIETIES FROM THE GERMAN.

of the Officer for

THE LIEST VENESECTION IN RUSSIA. The father of Peter the Great, the Emperor Alexis, in a fit of ungovernable passion, tell down senseless. The court physician was immediately called in; he could scarcely feel any pulsation; the countenance was blue; the lips pale; in vain were all the most forcible stimulants applied. The situation of the patient became every moment more critical, and the physician declared that nothing but immediate venesertion could save the Emperor. The chief officers of the court were called in; the doctor bound the Czar's arm, and was just about to plunge in the lancet, when the Emperor came to himself. On seeing these unusual preparations around bim, he raise himself, and angrily asked the doctor "what were his intentions." The doctor replied that as a too sudden accumulation of the blood had thrown his Majesty into peril of his life, he had considered venesection the only remedy. The Czar empuring the meaning of the term, the dector explained the nature of the operation in the most attractive phrases in his power, when the Czar responded, "What, dare to would, me on purpose to shed my blood?" The doctor replied, that though in Russia venescetion was not yet known, that in France, Germany, and Poland, this operation had been long resorted to with success. He assured him that it would enable him to breathe more freely, and prevent the chance of increased inflamination, The Emperor now nearly relapsing into a state of insensibility, said, is there no other remedy left? Is venesection deleterious to a sound person? If not deleterions, is it at least unnecessary? Is it possible to open the vein of a sound person without death ensuing? Being answered satisfactorily, the Umperor insisted on having the operation performed first on the doctor's own arm. The physician objected, that he would not be able to perform the operation on his Majesty, the arm, if bled, requiring repose, but proffered to submit to the operation as soon as he had tied up the Emperor's arm. The Czar sharply scrutinized the doctor's countenance, and hearing again that it was absolutely necessary, called several of the first and most distinguished dignitaries of the state, ranged them in a row, and then ordered the doctor to perform venesection on them in succession, courtiers did not know the Emperor's object, but submitted blindly to the order, and showed no small dismay while observing their blood issuing in streams from their veins. Encouraged by the absence of any dangerous symptom, the Emperor bared his arm, turned aside his head not to see his blood flow, and the first royal Russian venescetion was per-

EATABLE BIRD'S NESTE AND THEIR COL-LECTION NEAR KARAMBALANG, ON THE SOUTH COAST OF JAVA .- In the neighbourhood of Karambalang, is the river Kalie Lara, (viz., the river of Lara). Thousands of small birds, which, with the exception of their diminutive tails, resemble much our swallows, here build their nests on perpendicular cliffs, bathed by the waves of the Pacific. Their nests resemble much a mustard spoon with a long handle, hang together by pairs, and are so placed by their long ends in the cavities of the rocks, that they are protected from the influence of the wind, &c. The collecting of these eatable nests, is accompanied with much danger, many people are killed in this endeavour, on which account only the native labourers are planted in small allotments with roses, of employed in this work. They built scaffold-which each contains 2,000 plants, which yield

ings of Bamboo on the precipice and the caverns of the rock; in which the Purong Salanzen (this is the native name of these birds) are to be met with. They then break them off with iron hooks, no matter, whether there be young birds or eggs in them. The nests collected near Karambaling belong to the inferior in grey quality, whilst the better white sort is collected near Bajermassing in Borneo. In the latter place, the collecting of nests is not so dangerous as in Java, on which account there are some volunteers who collect them. In the Dutch possessions in Borneo, they are the property of the governor. Many of them are also stolen by persons who have no leave to collect them. In Java no Chinese is permitted to come nearer than 3,000 yards to the rocks of Karambalang. The substance of which the Puren Salanzen make their nests, and the reason why they do not puttify soon, is not yet decided by naturalists; yet it has not been taken notice of, that the rocks on which they are to be found, contain a good deal of saltpetre, which drops down from the cavern. It is, therefore, probable, that the air also is impregnated with particles of saltpetre, which penctrate the substance of the nests, whilst they are building. If these nests are not properly cleaned, they retain an obvious taste of saltpetre. Travellers have observed, that rocks where saltpetre has been found in former times, and where its formation does not take place any more, these birds will cease to build their nests, and the few which might be still found, are broken and crumbling to pieces. This may be the reason that so many birds resort to Karambalang, although their nests are destroyed almost every season.

ON THE ORIGIN OF THE USE OF COFren,-(From an Oriental MS.)-It is gencrally reported, that a shepherd boy had observed in Arabia, that whenever his goats cat of the leaves or flowers of the coffee tree, they always were more lively. He had thought on the subject, and found that the use of the plant produced the same effect upon himself. This is the general belief of the introduction of coffee into general use. Our manuscript gives however, the following. In the first period of the Mahomedan erced, there lived in Mecca a widow and her daughter. Their occupation was to receive and to entertain travellers, and on that account they did not escape the seandal of the neighbours; the Shiek, in con? sequence, ordered them to leave the town, and the mother soon after died in misery. The daughter made the grave of her mother near a coffee tree, and selected a neighbouring spot for her own grave, where she was laid when dead by a holy hermit, who had taken care of them during life. Short y after, a severe plague devastating Mecca, the Shiek who had expatriated the poor people, died, and with him several others who had behaved ill to the family. This opened the eyes of the successor of the Shiek, who convinced that they had wronged mother and daughter, ordered the expiations usual in the Orient, especially the usual ablutions. For the sake of making this as efficient as possible, they used a decoction of the leaves of the tree, under which the two martyrs were laid. A sense of superstition led to the drinking of the decoction, and successively the berries coming into repute, were used first raw, then roasted, and finally ground to powder.

ON THE CULTURE OF ROSES AND THE MAKING OF ROSE WATER, AND THE CELE-BRATLD AFTAR AT GHAZEEPOOR .- About Ghazeepoor, nearly 150 acres of land are planted in small allotments with roses, of two lacs of roses, and produce 50140 Rs. The roses flower from March to April, are gathered in the morning and delivered in long bags to the place of distillation. The apparatus used for it is a kettle, of 3248 quarts, made of copper or iron well tinned. having a narrow neck, Of 1,000 reses, mostly one and a-half laes of rose water are distilled, but of the best only one lac, and the remainder of the water used for distillation is exposed to the Sun, and its price is very low. For the purpose of making attar, the rose water is put in a basin covered with white muslin, and placed during one night two feet in the ground. The pellicule formed during the night is taken off with a spoon, and placed carefully in a little phial. and this is continued for several days, and every access of the Sun earefully avoided. After a sufficient quantity of attar is collected, it is strained off clear, and filled in small bottles. Pure attar is first light grey, after- the celebrated Medici family! The disparagement is wards it becomes light yellow, and melts at a certainly not there. temperature of 84 deg. Roses, the flower of which are well developed, and such as have been exposed to night frosts, yield most attar. That sold in most Oriental bazaars is mostly adulterated with sandal or almond oil, and the pure is not sold under 8000 rupees for the Talah. Generally, the inhabitants of Chazeepoor, do not remove the calyx of the roses, but it is considered, that such oil will not keep long, and will have a sour smell. A great quantity of roses is sold at Penean, the amount thus realised may amount to 70,000 tupees, but has been on the decrease lately

TO CORRESPONDENTS.

An Antiquarian may, we understand, procure copies of Starp's elebrated engraving of John Hunter, after Sir Joshua Reynolds, from Mr Stone, the sub-librarian, or Mr. Clift, the conservator of the College of Surgeons. Dr. Coghlau of We ford, sends us a case of great crofessional hardship. After attending a midwifery ove occurring at mainight, on a rainy night, at a considerable distance, under a promise of immediate payment of his fee, the doctor was obliged, after repeated denatuds of payment, to summon the husband for the amount before the presiding barrister at the Quarter Sessions, when the claim was negatived, and it: expences thrown on Dr. Coghlan's shoulders, on the ground that being a physician he could not see for tree. Now as Dr. Caghlan is a member of the College of Surgeous, and an lea oucheur by education and profession, we should take leave to doubt the legality of designed him payment for services performed in those capacitie, because in addition he happened to be a physicion. But, whatever the law is, the practice has run in the direction of the presiding burnister, and well justifies in its corecding absurdity our respected correspondent's question " Will putting my medical arplama in the fire protect me from its disqualifying refluence?" This is one anomaly unong a thousand calling for redress.

A Subscriber (4. R.) will find the mode to mesmerise fully explained in No. 152, vol. 6. This unswer wast suffice for a number of no ibir corporers. From chat we have noticed, there who sing a place the fingers up; directly before the eyes of the period, appear to , reduce the comatese state with most our.

 Λ_{γ} M, and other Correspondent . If there be in condidate doubly qualified, a licentiate of the Hall way certainly be elected by the Guardians' Medicul Officer to the Union. The exception is specially made In the Poor Law Commissioner

Dy. M. Hall .- We must deed to the many commonweations we have received on this physician.

Mr. Cook. Emiscorthy. - The numbers from 33 to 38, forming a part of vol. 2, are out of print. We have ent the more recent numbers.

L. N. (A Medical Student.)—Mr. Nattingham lives on Rusevermon Street, Liverpool. For second question consult a good hootmaker (our need door neighbora for example) who will probably answer in the affirmative; for the third look at our ultertisement page.

Mr. Baker .- The classical subjects for evaniumtion at the Levelon University we not made known to us, but a letter to Mr. Rothman, the Registrar, would doubtless be remiserally responded to.

Alethes must furnish is with his name, the respectable party he responds to being known to us.
P. S.—Mr. I. H. P., Glasgow—Philo—Potts—

Detru Optimo-Justitia-A Medical Reformer. declined.

A Physician with v. German degree may practise as a playsicium—as indeed any quack man—if he practise seven miles out of London. The preparation of his own medianes, and the donation of them prepared, no intringement of the Ipotherwies privileges.

II. W. has a higher opinion of his writings than our judgment of them justifies. They are preserved by we uverdent and if he still thank them worth sending for. will be found lying at our office for him.

A Correspondent sends us a coat of arms for Dr. M. Hall, We connot insert it. Does our Correspomlent know that the pills which make so conspicuous a figure in las sketch, are emblazoned on the coat of

We are obliged to postpone Dr. 'a illians' Lecture till next week, when we shall also publish the conclusion of Dr. Clay's papers on Factory Diseases.

In answer to many new subscribers we beg to give the foll wing information on our first numbers .- Vol. 1 centains Lectures by Lawrance on Surgery, vol. 2 is in part out of print, rol. 3 Lectures by Lawrence on Surgery, vol. I contains Lectures by Laurance on Surgery, and by Professor Owen on the Reproductive Organs, vol. 5 contains Lectures by Velpeau on Discuses of Wamen, Se, ffern on Chemistry, Chomel on Pneumonin, vol. 6 contains Lectures by Velpean on Discuses of Women, Roupell on Materia Medica, Professor Chomel on Pneumonia, Professor Owen on the Nervous System, Orfila on Arsenic. Those are all the Courses of Lectures published up to the present volume.

Mr. Close is probably right, but it is difficult to refuse every importunate applicant.

A. B .- Gentlemen in A. B.'s position may be retained in office in the event of their elitaining the Cammissioner's leave, or in the event of medoubly qualified condidate presenting his self.

NOW BLADY.

THE MEDICAL TIMES ALMANAC, FOR 1 THE MILET ALL HISTORY AND ALL AND A PARTY AND A PART

Pro r td., Savutan 5d

THE MEDICAL TIMES.

SATURDAY, JANUARY 28, 1813.

Si pudicas, cognosce.

HAVING in preceding numbers considered the medical arrangements of Austria and Prussia, we are now led, by a natural transition, to the MEDICAL ORGANIZATION or BAVARIA, a kingdom in which, from the high intellectuality and daring zeal for all kinds of improvements characterizing its monarch, we may expect, and not vainly, to find our profession a little hetter regulated, and marked by somewhat more of symmetry than in some older monarchies, under Governments of far higher preten-

The first distinguishing circumstance worthy of remark is, the absence of our division of Surgeons and Physicians. Each member of the higher body of practitioners is at once Doctor of Medicine, Surgery, and Midwitery. He is all or nothing. The earliest age for commencing his protessional studies is fixed at twenty-two. Before entering himself as student, he must shew

certificates of having completed with satisfaction his preliminary studies, which must include a comprehensive course of Philopsohy; and he must be approved, by the Dean and Secretary of the University, as in possession of the moral and physical qualities deemed to be necessary in an accomplished practitioner. The studies occupy three years, or six sessions, take place necessarily either at Munich, Erlangen, or Wurzburgh, and are terminated by two rigorous private examinations, and the composition of a theme, in Latin or Greek, on a selfchosen subject. The diploma is now given, but no right to practice, which is only purchased by two further years' attendance on hospitals, or respectable private practice at home or abroad-and by sustaining with success an examination on practical points, before a Special Commission, formed by certain University professors, certain city physicians, and a selection of public medical functionaries.

The charges are moderate. Less than £1 paying the two annual sessions for the Professors, and £20 covering all the expencesof the examinations.

There is but one limitation of practice throughout the whole kingdom, and that is one well worthy of remark. By a recent law, the number of medical men is restricted to a certain proportion of the population; and thus our Bavarian brethren rise or fall with the rise or fall of their patients—a true sliding scale of physic. We are told, as illustrative of this singularity, that at Munich, with its 80,000 inhabitants, 87 Doctors are held to be, according to the scale, 17 too many. Till this anomaly be removed, therefore, only one new Doctor (whose title is always seniority) is allowed to enter the field of practice for every three vacancies.

Besides, however, the "Doctors," there is an inferior class of practitioners, about the policy of whose preservation there exist at present warm differences of opi-They are called Landarzte, or Beider, bailers, or barbers. These must have finished their humanities-that is, must have acquired at least a competent knowledge of Latin, and the general principles of composition. There are special schools for them at Bamberg, Landshut, and Ratisbon-and they are not permitted to attend as regular pupils at the higher University courses. Their studies last only three years: they are then twice examined by their own Professors (the cost of all amounting to about £15), and are allowed forthwith to enter practice, which is, however, limited to the division of the kingdom in which they were educated, unless they submit to a second examination. Their duties are restricted to the more simple medical and surgical cases, and to midwifery. If they venture on eases not sanctioned by the law, they are liable to penalties of from 30s, to \$10, to imprisonment, and to loss of their diploma. Their numbers are regulated, also, on the principle of the sliding scale. In cases o a too healthy neighbourhood, these subordinate practitioners have permission to eke out an income by acting as bathers, barbers, or hair-dressers.

The Army Doctors in Bavaria offer little requiring notice. Their education, examinations, and titles, are identical with those we have already described: they are at full liberty to practice in or out of service, which they can leave at pleasure,

The Medical Organization of Hesse DARMSTADT is similar, in reference to the two grades of the profession, but different with respect to many of the details of education.

Preliminary education is proved by candidates for the Doctorship, either by certificates of a completed college course, or by a practical examination—a wise and very liberal arrangement. The only school of medieme is at the University of Giessen, where the students must pass at least two years. A third year is passed in hospital attendance, which may, however, be spent in any German or foreign medical institusion. The course of study followed, is according to the preference of the student; but, on examination, he is required to prove by certificates that he has attended courses of mathematics, natural history, logic, psychology, chemistry, botany, therapeuties, medicine, surgery, general pathology, anatomy in all its branches, physiology, midwifery, jurisprudence, diagnosis of diseases, and operative surgery. The examination lasts several weeks (five being the minimum). The answers are both oral and written; which, if found satisfactory, are followed by a printed thesis, the propositions in which the candi date is obliged to sustain in public, before the University Professors and the City Doctors. In cases of extreme timidity, a dispensation is occasionally accorded, when the candidate does not aspire to a Professor's chair. The diploma when given, gives the universal right of practice, except in public employments, where an additional examination is required.

Here, as in Bavaria, the Wundartze exist but in a smaller proportion, being but as six to ten. Their examination lasts only about two hours-about an hour and a half longer than that of our candidates at the College of Surgeons.

PENCILLINGS OF LIVING MEDICAL MEN.

Mr. Frederick Tyrrell.

NEXT in order after Mr. Green comes Fredk. Tyrrell, Senior Surgeon to the Royal London Opthalmic Institution, Surgeen to St. Thomas's Hospital, Professor of Anatomy and Surgery to the Royal College of Surgeons, Se. Se.

at If the remark of Mareus Aurelius be correct, that a man full of talent spreads around him a performance of a characteristic nature—that his soul and his disposition can be seen in his acts, if physiognomy may be placed, as Baeon laid it, in the fixed sciences, Tyrrell's face ought to be what it is not—"the tablet of his thoughts." But, although the mens divinor Astley Cooper was not only an able surgeon,

has taken up its abiding place under an humble roof, he can cite the similar examples of Zeno, of Esop, and Socrates, and other great worthies, ancient and modern, and conside himself with the fact that the poets who wrote the best coincides and epic poems were, like him, bilious, melancholique, and triste in ap-A heavy, dutl, sallow, saturnine caste of countenance, shaggy iron-grey brows, small grey retrocedent eyes, prominent bulbous shaped nose, long thick unaristocratic upper lip, cheek bones, too forward to be handsome yet aiding to give an appearance of tirmness and squareness to a face otherwise too long, too monotonous, and too unrelieved to be accurately or expressively intellectual .- so composed is the face of Tyrrell: the details would seem to contradict the general configuration: for, when the eye is lit up, and he is animated, it presents a pleasing prepossessing, agreeable, tout ensemble. He is about fifty-six years of age--of a square robust lignre, and about the middle height; his thoracic devedopinents, round and spacious, gave promise of many years of unimpaired health, which, we regret to say, have not been realized. His manner as a lecturer was a ways heavy -- the tones of his voice and the action with which he tries to give effect to his language destitute of variety; his articulation is thick, yet distinct, but marred by the sameness of his voice; his gestiontation consists of a slight movement of the head; his matter, not being original, or enlivened by anecdote or illustration, does not improve his manner. You might as well expect the moss rose, or the lily of the valley, to bloom in Puddle-dock or St. Giles's, as to look for a scintillation of genius or electricity, or a brilliant and eloquent idea in any portion of the oral or scriptural discourses of Mr. T. His style is feeble and without polish, ancient or modern; it is certainly unlaboured and in keeping with his sentiments. They say the character of the man is moulded from the aceidental impressions of childhood. Tyrrell. then, must have been born near a churchyard. In his deportment to the pupils he is firm, precise, and formal, -mistaking taciturnity, for tranquil dignity, and pomp for pride. Some regard this with a more favourable eye, and look upon it only as a proper degree of distance, which every professor should assume to repel freedom or familiarity. We think he feels the elation of his station; he looks down upon the inferiority of others; he is, therefore, a hanghty man. The proud man is he who dwells with complacency upon his own perfections. His cold and distant behaviour towards his brother practitioners-his imperious bearing towards the officials at the college and hospitals - prove him to be, if not a proud, certainly a conceited man.

His indisposition prevents his attendance regularly at the hospitals. The labour of lecturing is out of the question. Formerly he was very industrious, and his clinique was practically instructive on the principle that there are sermons in stones and books in running brooks.

He is the son of the chief remembrancer of the City of London. By his municipal influence and apprenticeship, he was favourably introduced into St. Thomas's Hospital. arrived at the object of his ambition through the royal road of matrimony; he wooed and won the niece of Sir Astley Cooper, when the power of that worthy baronet was paramount; he is thereby brother-in-law to Bransby Cooper, and of Aston Key, who was also fortunate enough to secure professional promotion on such easy and agreeable terms. Sir

a successful lecturer, and a consummate d p matist; under his directions, love was made the handmaid of fortune and of interest. By the assistance of his friend, the Treasurer, he afforded us a very pleasing refutation of a very vulgar notion, that marriage was "a lottery and made in heaven;" for all those fabricated in Guy's and Thomas turned very fortunate for all parties, and he succeeded in thus comfortably disposing of all his relations and connections. Whilst many in the buoyaney of their youthful ardour, in the golden hours of their young hopes, were wasting the spring-tide of their strength, the roon of their manhood, in scientific pursuits, cultivating an honourable name, and flattering themselves that by their contributions to knowledge, they were acquiring a fame that would give them claim to fill situations of responsibility, utility, and distinction: whilst genius pre eminent, is thus toiling up the rugged steep ascent, with its untiring energy and cuthusiastic isolation foreing its way through mountains of difficulty towards the bright goal that acts as its incentive, and ealls forth all its latent resources-another secures the prize that should reward " the toils which to this summit led,"and not by falent, not by study, not by merit, or acts of high emprize, -the legitimate avenues to such public appointments -he takes the roseate path of amorous dalhance -the well counterfeited sigh-the stolen glance, that so rapturously and eloquently heralds the heart's wishes, or the passions' promptings-the hand delicately, yet expressively, impressed in the mazes of the dance, introduce the favoured one into the porch of science, into the very sanetuary of the sterner maid. He wins fame and fortune; he carries off the prize; Venus proves more powerful Genius, disappointed, mortithan Minerva. fied, disgusted, retires from a contest frequently from a profession that holds out no inducements, that offers no rewards, that presents attractions only to deceive. First-rate men are thus lost to society. The exciting, the active spirit, the enthusiasm of discovery which is the master element of commanding genius is destroyed. The effects of the blighting system of patronage are retardation of scientific improvement; the discontent and degradation of the moral character of the profession. sycophancy of a great man, the sympathies of sectarianism, the predilections of faction, the favours of the fair sex, are the most efficient means to promote our prospects in life. All are placed in the unworthy foundations of extraneous patronage.

In 1825, Mr. Tyrrell commenced an action against the Lancet, in which, we may say, be was defeated, He was described as the prince of medical dunciads. His notes and illustrations of Sir Astley's lectures would seem to justify

the correctness of the epithet.

Common place remarks, wretched composition, inappositeness of the eases addiced, puerility of the inferences, satisfied Sir Astley that a man had no greater enemy than an injudicious friend; and he published his lectures freed from the dead weight of Tyrrell's lucubrations. Between this and the publication of his work on the eye, he confined himself to clinical lectures. His observations on diseases of the hip are practically useful; here, as in the work to which we shall advert, he never gratifies his hearers with a discussion of other plans, or by adverting to the opinions of others. Counter-irritation and generous constitutional treatment are his curative principles.

In 1840 he published a practical work on the diseases of the eye, in 2 vols. He says, my knowledge has been collected as the industrious bee collects its store from cultured

of the busy insect is said to be most precious when obtained from uncultivated flowers; so I consider that I have gained my most valuable knowledge from observing nature simply, but closely, and, I trust, without prejudice his introduction we are treated very gratuitously to ekiborate encomiums upon Dr. Farre, and a tew sentences upon that truly deserving man, Mr. Saunders. "My own labour has been simple, for I have had but to pursue the path marked out by Mr. Saunders. My endeavour has been to render the path more distinct and easy for others, and in doing so, I consider that I have opened some new prospects which would probably have been done by Mr. Saunders, had he lived to carry on the plan which he commenced in so musterly a style.

He commences with a very ordinary essay on diagnosis. He then gives a few simple but erviceable suggestions as to the mode of examining the affected eve. He is averse to large abstraction of blood in general, "just so much as to relieve the tension of the arteries. He is favourable to fomentations and opposed to cold lotions applied for hours together as is frequently the case. Counter-irritants he apof the anatomy of the conjunctiva, and its morbid conditions of which he makes the following varieties: -

Simple Opthaliuia. Pustular.

Chronic Opthalmia. Strumous ditto

Catarrhal Opthalmia | Exanthematous. In simple opthalmia or conjunctivitis when it depends on functional derangement, a plain nutritions diet, a moderate proportion of animal food-a glass of wine and water-1 grain of calomel, and 3 of blue pill every night, and ome compound decoction of aloes with tincture of seuna and manna every morning, topid water to the eyes, and blisters are his custom-ary remedies. Such objectionable expressions as the following frequently occur. effect of the local treatment is beautiful!
To a peculiar condition of debility he gravely assigns symptoms, the most prominent of which is a feeble pulse?" Dr Farre, he says, reconneceded a beneficial change of constitutional vigour! In obstinate and irritable cases, change of climate is beneficial. He comprehends the Egyptian, the gonorrheal, and that of neo-natorium under purulent. This is a valuable chapter. Bleeding, nauscating doses of tartar-emetic; mercury to check adhesive effusion, local bleeding. The disease when specific should be treated more actively at first. Strong solutions of nitrate of silver at the commencement. When chemosis of the cornea takes place it adds fuel to fire.

"The constant failure of all ordinary modes of treatment in the second stage of purulent inflammation, when complete, Ied me frequently to close and attentive consideration of the subject-and eventually induced me to a lopt a plan for its relief. I became satisfied from careful observation, that the cornea did not derive its life from the inflammatory action affecting its structure, and I also ascertained by other morbid conditions of the conjunctiva and cornea, that the former was the principal channel by which the vessels of the latter passed for its supply and nutriment. It was easy then to conclude, that the chemosis, by mechanical influence, produced arrest of circulation, or strangulation of the vessels in the conjunctiva over the margin of the cornea and selerotica, and that thus the cornea and its conjunctival covering being deprived of nutritions fluid lost their vitality or (as he says in and states, that several high authorities prefer hall. We believe that numerous avocations

other places) lost their lives." The remedy that suggested itself was the free division of the chemosed part, so as to relieve the tension of the conjunctiva, and to allow of the escape of fluid from the subjacent cellular tissue, as in cases of severe phlegmenous inflammation.

In the plan proposed, the incisions are to be made through the sclerotic portion of the conjunctiva, and the subjacent cellular tissue, beginning at the margin of the cornea, and extending towards the orbit in a direction as rays radiating from a centre, but avoid immediately the transverse and perpendicular diameters of the globe, that the large vessels passing to the cornea might not be injured. In several cases I found it successful beyond my expectations. Locally, after the division of the chemosed part what must be free, simple fomentations for twenty-four hours. In case of pain returning, leeches to the palpatræ freely after the pain has subsided to be made astringent by alnm. If the anti-phlogistic plan be pushed too far there is an obstinate chronic stage of the disease which is avoided by moderately, generous diet. In Lawrence's work of 1834, there is no allusion to this mode. Purulent plied in the neighbourhood of the eye—Blisters opthalmia in the infant commences most fre-and issues behind the ears. The introduction quently on the third day after birth. First quently on the third day after birth. First occupies one half the 1st, volume. He begins and most common cause, a morbid, vaginal the work itself with a very detective description secretion from the mother, leneorrhea; second, gonorrheea; third, exposure to 'damp and moisture. He applies a leech or two to the lids, and, if nee ssary, he would divide the chemosed part. Has he ever done so? No; but a weak solution of alum in poppy decoction to be used frequently, 2 grains to the onnce. The cornea becomes nebulous and vascular from the long continued inflammation of the palpebral portion of the conjunctiva acting as a mechanical irritant. To this granular state, he applies a solution of diacetate of lead. Then comes the anatomy and description of the cornea and its pathological conditions after ulceration. In prolapsus iridis, he recommends the use of belladonna and weak solution of nitrate of silver to excite adhesion around the edge of the uleer. His observations on the diseases of the choroid tunic will well repay perusal. Acute retinites occurs most frequently in females between 40 and 60. Mercury, local bleeding, and narcotics, opium, ointment to temples. Functional and organic amaurosis is well curials, in particular cases. His deliberate described.

> He acknowledges the present arrangement as far from perfect. He offers very fulsome adulation to old Dr. Farre for his able guidance during their investigation of the disease. What have their conjoint labours effected? Nothing. In strabismus, not one of the modern improvements or operations is even alluded to.

Every step of the operation for cataract is described in detail. He performs keratomixis in the following simple manner: the needle should be held in the hand not occupied in fixing the superior lid, in the same manner as in the operation for depression, and the point should be introduced through the cornea, near its junction with the selerotic at the temporal side, one flat surface being topposed to the iris. It should be carried on n the anterior chamber through the pupil, and directed to the capsula of the lens near to the upper part of the pupillary margin of the iris, where it should be made to penetrate the capsule. It should then be directed downwards, so as to lacerate the capsule perpendicularly needle should be withdrawn as soon as the laceration is affected. He applies belladonna to the temples.

depression because extraction is too difficult for them! He contends that the radiated opacity often seen in capsular cataract is not in the capsular, but in the posterior bemisphere of the lens. He does not operate for extraction of cataract in winter.

In cales of capsular, or capsulo-lenticular cataract, Mr. Tyrrell frequently employs with advantage a modification of the anterior operation by solution, which he calls drilling fine straight needle is carried through the cornea, near its temporal edge; it penetrates the capsule, and enters the lens to the depth of onc-sixteenth of an inch. The handle is then rotated between the finger and thumb-so as to make the point act as a drill. This is repeated every three or four weeks in a fresh point of the capsule; it causes no inflamma tion, but excites absorbtion.

Throughout the work there is not the least allusion to the labours of Lawrence, or others. Now this absolute absence of reference to others is a singular feature in this department of surgery. He was determined to avoid the fault of Lawrence: too much description of the plans of others, and too little of his own. The judgment evinced by Lawrence in the selection of his matter is admirable, - there is two much labour in it, there is too much learned compilation, and too little of the result of his own experience; but it is a mine of informationan immense mass of knowledge, collated from all writers on the subject. This and McKenzie's learned and comprehensive work are most read-Middlemore and Guthrie next; the last work, most ecrtainly, for artificial pupil, above all the others. His heroic treatment of opthalmia by the ung. opthalmicum magnum is worth

The value of Mr. Tyrrell's book is the detail of his medical treatment; in other respects, it is inferior to the German and English works that preceded it. His anatomical descriptions are faulty and inaccurate, - for this there is no extenuation: yet he is the most successful operative oculist we have. It would appear that anatomy and practical medicine do not move in parallel lines. His views are unscientifically urged. In almost hopeless cases, his generous diet and tonies performed miracles. Bark and carb. sode, with mild merprotest and predictions against operative proceeding in squinting are very foolish and un-

It is a well known fact, that with extensive chemosis there are conditions of the cornea that indicate increased vascular supply of that part,-viz., ulcers, suppuration, and interstitial deposition. If, again, the supply to the cornea is thus cut off, why does it not slough in its entire structure. Chemosis is a frequent consequence of gonorrhera, opthalmia, and of the operation for strabismus often to a great extent; so as to conceal the whole of the cornea -yet sloughing does not occur. Romer and Pampperheim injected the cornea, and demonstrated the posterior vessels from the selecotic trunks; Valentin and Lawrence are of the same opinion. He very truly remarks, that, if those favourable results should be confirmed, the treatment will constitute a valuable addition to our means of contending with a violent, rapidly destructive, and most alarming disorder. By enquiries we have ascertained that this improvement upon Scarpa's plan is rarely had recourse to at the Opthalmie-that it is fast falling into desuctade. The style of the work is diffuse; it was written for Mr. Tyrreil by Mr. Leach, a literary man, who has brought

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and a delicate state of health, prevented Mr. Tyrrell writing it himself.

In 1839 he read a paper upon nœvus at the Chirurgical Society. Some years ago he had a controversy with Dr. Blicke, in which the brothers-in-law figured in a very strange light, Dr. Blicke, in his analysis of the evidence which he published at the time, was very severe upon them. Key and Tyrell became bewildered in the cross-examination, and contradicted each other, In the case of Beale, v. Self, these two gentlemen appeared in the same capacity to support Beale, who had been Mr. Tyrrell's dessecting porter. We have seen the certificate of Mr. Story and others who attended lectures at the time, stating that no such person was known to them. Now these gentlemen had better not hunt in couples any more; it may be very convenient to have a relation to prove one's view of a case, and bringing in the weight of situation, they may hunt down the general practitioner; but re action will follow. Let it not occur again; the timidity they displayed was witnessed by hundreds of practitioners, many of whom are not afraid to grapple with them, if an opportunity should occur. Verbum sap. sat.!

Tyrrell and Liston have both declined giving the Hunterian oration; one on account of illness—the other feels that "he is no orator, as Brutus is." Arnott is preparing for the fask.

Mr. Tyrrell is now a finished, a safe, an elegant opthalmic surgeou. His manipulations of eye and instruments are perfect. His treatment we have praised before. He is at the head of the scientific oculists of this country. Ркове.

EXTRAVASATION OF URINE.

PHYMOSIS.—INHERRATION OF URINE. URINARY TISTULE-SLOTGHING OF THE SCHOTTEN.

By W. Smith, Esq., Brompton, Kent

JOHN PHILLIPS, aged 29, contracted gonorthea on the 30th Oct. 1842, and on the 1st of November Orchitis succeeded. The prepare was much swollen, and it was found necessary, by another medical man, to divide it partially in order to relieve the tension. Aperients were administered with tartar emetic and poultiers were applied; but not finding himself any better, he applied to me for further medical advice; when he presented the following appearance.

The scrotum was very tunnid, of a dusky red colour, tense, and three or four times its natural size; the perineum was equally red and touse, and presented all the appearances of infiltration of urine. He had a severe gonorrhaea with intense scalding, phymosis, and two large ulcers on the dorsum of the penis, extending into the prethea, and allowing the urine to escape. Pulse 120, and full. Bowels open; tongue white, and loaded; skin hot and dry; mouth parched.

Several longitudinal incisions were made through the tegument of the scrotum, and it was found necessary to divide the remaining portion of the prepace, from which about three ounces of very fortid pus escaped. Through the incisions made in the scrotum, a quantity of urine-like fluid escaped guttatim : warm fomentations were kept applied upon the parts, and the following medieines administered :-

R Infus. Semae Co. 3ij. statim.

Ant. Tart. gr. } Pulveris Opii, gr. } Hydrarg, Chlorid grs. iij, fr. pulv. I, 4tis, horis, sumenda, Cataplasma.

3rd. November. - Feels much relieved to-day

open; tongue clean; urine (drawn off by a catheter) natural.

Sol. Calcis Chlorid 383. Aquæ lb. l. ft. lotio. Rep. Pulv. et Cataplasma. Tinct. Opii, m. xx. Liq. Ammon. Acet. 3j. Aquae. 3ss. ft. haustus hora somm

4th November.-Much better. Pulse natural skin moist; bowels open; tongue elean; scrotum much reduced, and feels quite easy.

Rep. Pulver 6tis horis. Cataplasma. Rep. Pil. Calcis Chlorid. Rep. Haust, Anodyn.

5th November. — Scrotum natural size; pulse natural; skin moist; tongne clean; bowels open. A sinus was discovered extending above the pubis on the right side, and communicating with the nrethra ; an incision was made on a directer, and a quantity of pus flowed out.

Rep. Cataplasma et Haust.

6th November. - Slept very badly last night; complains of pain in the scrotum, but in other Tongue clean; pulse natural; kin moist. On examining the respects, easy. Tongue ele bowels open; skin moist. scrotum, I found it soft and fluctuating about the lower third, and very painful; thinking that pus might be burrowing there, I introduced a directer at the ulcer on the dorsum of the penis, and found it pointed at the soft part in the scrotum. I therefore laid it open for about two inches, and about six ounces of pus escaped, which gave him great relief. Charpie rapec was introduced, and a poultice placed over it.

Rep. Haust et Lotio Calcis Chlori. 7th November.—Slept well; feels much casier; pulse natural; tongue clean; bowels open.

Rep. Hanst et Lotio. Cataplasmata. 5th .- Continues to improve. Rep. Haust et Lotio.

Cataplasmata. 11th.-Continues to improve; bowels constrpated.

Infus. Sennæ Co \(\frac{2}{5}ij\), statim. Rep. Haust et Lotie. Cataplasmata.

15th.-All inflammation in the scrotum and penis has subsided, and it was now found necesary to bring the edges of the wound in the pubis tegether. Pulse natural; skin moist; bowels open; tongue clean.

Rep. Lotio et Haust. Cataplasma. Charpie Rápée.

20th Nov .- Much better; wound in pubis nearly united; pulse natural; (orgue clean; bowels open; skin moist.

Rep. Lotio. Charpie Ràpée. Cataplasma.

25th Nov.-A sinus formed (through which the urine escapes), extending from the dorsum of the penis to the lower third of scrotum. I therefore introduced a gum-clastic catheter, which he is to wear constantly; applied some cupri sulph, and charpie, and brought the edges together. Bowels open; tongue clean; pulse natural; skin moist. Rep. Lotio et Charpie Rapée.

30th Nov,-Wounds in the pubis; prepuce; and dorsum penis quite healed; urine passes through the catheter easily, and since wearing it he has not had any pass through the sinus in the scrotum, which is healing up quickly; all but one part near the raphé which looks sloughy; pulse, bowels, and tongue natural.

Charpie Rapee.

4th Dec.-Slough in scrotum has come away. and is now healed up; a few fungous granulations remaining in the centre of the cicatrix. I applied some nit, argent, which soon destroyed them; bowels constipated.

R Infus. Sennæ Co \(\bar{z}\)ij. statina

7th.—The wounds have all healed up; he disfrom the fomentations. Scrotum not so much in-flamed; Pulse 98, and soft; skin moist; bowels it is unnecessary for me to attend him any longer.

ROUGH REPORTS FROM GUY'S.

Unymosis and Bubo. Bartholomew Scan dal, æt. 19, was admitted into Guy's Hospital Nov. 16th, 1842, under Mr. Aston Key. He was of a spare, pallid, and strumous habit. Phagedenic sore at the end of the weethra; partial phymosis from thickened prepace, (five weeks); suppurating bubo. 17th. Epithema plumbi applied to sore, poultice to bubs, and potass iodid grs. v., ter. die. ex dec. sarse comp. 19th. Bubo opened, poultice applied. comp. 19th. Bubo opened, pounted appared. 21st. Phymosis disappearing, sore looking 25th. Sore covered with a layer of healthy. yellowish white fibrine; still strongly touched with argent nitrat. Dec. 2d. Phymosis healed, bubo healed,—to apply emplas. ammon, chyd. Dec. 6. Presented cured.

CHRONIC ENLARGEMENT OF TESTES, WITH HYDROCELE. - John Palmer, et. 23, was admitted into Guy's Hospital Nov. 16th, 1842, under Mr. Aston Key. He has chronic culargement of testes, and hydrocele on the right side, with superficial ulcers on the legs, (two months.) 17th. Pil. bydd. 5i., potass iodir. 5ii, ft. pil. 60, 1 ter. dic., ung. resine to sores. 21st. Hydrocele lessening, ulcers on legs much improved by poultice alone. 21th, Mouth touched, pil. i. bis. dic.; sores improving; hydrocele lessening. Dec. 2d. Sores on legs healing fast. Dec. 8th. Sores healed, and hydrocele quite disappeared. Presented cured.

PERISCOPE OF THE WEEK.

ORGANIC CHEMISTRY.—The following is an analysis of the milk of a woman, a cow, and an ass, made by Dr. Playfair:

Cow. Woman. Ass. 10 1.9 Casein..... Τã 116 44 1:3 Butter..... 5.7 3.8 6.3Sugar 0.6 0.5 Ashes 88.0 89 0 90%

Water..... The casein is the nitrogenised principle which affords nutriment to the museular and other tis-ues. This is in greatest quantity in the cow. The butter and sugar are the combustible materials which by their combustion supply heat to the body. The ashes consist of phosphate of lime and common salt, both of which materials are necessary for the healthy function of the body. Thus, we have in milk all that is necessary for the growth of the body, and it is the type and representative of all food; for unless food contain the principles of milk, it is not fitted for the purposes of the body. Casein is the principle of cheese. In its ordinary state, as made for the food of man, cheese contains both casein and butter. The stomachs of young animals are not adapted for separating the nitrogenous principles from food, and the casein of milk is supplied to them ready separated. All food for weaning children should be prepared on the model of milk, changing the relations of the nitrogenised to the carbenaccous materials only as circumstances require. In the milk of the cow the carbonised materials are as two to one, but in the food of adult anima's they are as six to one. The large quantity of casein in milk is required for the rapid development of the body; the butter, a highly car-bonized material, is required for supporting a large amount of animal heat.

GENERAL EXUDATION OF MILK-Dr. Rasi cites a remarkable case illustrative of the phenomena af metastasis. An usually healthy and robust peasant woman, twenty-seven years of age, was obliged, by broken breast, to wean her infant. Subsequent to this, owing to vacious imprudencies which are not partieularised, the secretion of milk suddealy

stopped, simultaneously with which the joints of the lower extremities became affected with sharp pains. The patient was at first treated for arthritis, by ordinary antiphlogistic methods. The joints, however, were neither paintful on pressure, nor exhibited the blush of inflammation, and much doubt was entertained as to the real nature of the disease; when, on the 17th day, after an ahundant perspiration, the whole surface of the body became covered with specks of a whitish colour, strictly similar, in appearance to those seen in military disease, but which, in about twenty hours, became converted into vesicles, containing a white fluid, to all appearance resembling milk. This fluid was somewhat heavier than water, lightly reddened turnsol paper, was not coogulated by acids, and when submitted to the action of ether, gave origin to a deposit of white filaments, which, treated with dilute hydrochloric or acetic acid, dissolved completely, thus muni-

festing their identity with the caseum of milk.
Phymosis and Paraphymosis - 1111118 TREATMENT. -- For those conditions of the prepuee, belladonna has been recommended by some French physicians: an ointment of 30 parts of cerate to half-an-onnee extract of belladonna, to be rubbed hourly over the prepare or dens penis, witth the further addition of an opiate in the event of much inflammation and pain. In phymose, a solution of four grains of extract of belladouna, and half of aqueous extract opii in an ounce of water is advised; to be applied by sponge, or as an injection between the prepade and glans, with warm baths of infusion of belladonna to the parts affected. Mr. Laue enjoins low diet, the horizontal position, saline aperients, and antimonials for phymosis, with lotio plumbi, fomentation of poppy-heads, and bread poultice as local applications. Leeches are not generally desirable. In severe cases take blood from the arm, however, and nauseate with

STATISTICAL RECORD RESPECTING CAN-CLRS.-Of 131 operations for this disease performed at the Hotel Dieu in Paris, during the five years, from 1836 to 1840, inclusive, 95 were for the excision of cancers from the breast, and 29 for the ablation of the testicle. Of the 95 subjects of breast-operation, (91 females) 75 recovered: the remaining 20 died-1 hetween the 5th and 10th days after the operation; 7 between the 10th and 20th; 4 between the 20th and 30th, and 5 from 1 to 2 months afterwards. Of the 39 subjects of castration, 5 died-3 before the 6th day, I on the 9th, and I two months after the operation. Of the 91 female cases, 75 occurred in married or widowed females, and mostly between the age of to and 50; while the diseases of the testicle were found to prevail mostly before the age of 40

SEMINAL Emissions, - For these and like debilitating occurrences, in the genito-urinary organs, after all exenting causes have been removed, Mr. Phillips advises the application of nitrate of silver within the urethra. For exploring the canal, Mr. Phillips prefers an elastic catheter, in passing which into the bladder, denotes accurately the point where the pain produced is the most acute. He then arranges the caustic apparatus, so that it shall not reach so far by an inch; the prostatie portion of the nrethra being seldom implicated in the irritation. The place where the caustic has commonly to be applied, is as nearly as practicable about the orifices of the ejaculatory ducts. The caustic, having been exposed at this spot, may be slightly revolved along the floor of the weethra for half a minute, for it sel-

passage of urine, and discharge may be produced; but these syntoms abute in a few days, and the condition of the patient is often changed greatly for the better in a few weeks, and without further use of the remedy.

COMING EVENTS CAST THEIR SHADOWS DEFORE. The observation "Nascitur, non-fit" will cortainly apply, not only to the poet, but to the painter, the physiologist, the surgeon, &c. That this is fully true respecting the latter, is instanced in the following encedute of a late eminent member of our profession. Copper was nursed by a foster-mother. son of this person, somewhat older than himself, had been ordered to convey some coals to the house of the vicar. While on the road, by some accident, the poor lad fell down in front of the cart, one wheel of which passed over his thigh, causing, amongst other injuries, the laceration of its main artery. Sinking from loss of blood, he was carried home; where Astley Cooper, having heard of the accident that had befallen his foster-brother, directly arrived. All was alarm and confusion—when the young Astley, in the midst of the distressing scene, alone capable of deliberating, and perceiving the necessity of instantly preventing the farther loss of blood, had the presence of mind to tie his pocket-handlerchief around the injured limb, so tightly that it acted as a ligature upon the wounded vessel. The bleeding was thus stopped, and the life of the patient preserved, till further assistance was obtained; and this was the successful debut of Sir Astley in the art in which he afterwards became so distinguished.

PAINTER'S COLIC-MEANS OF ITS PREvention.—A formula is given in a contemporary journal for the manufacture of sulphuric beer which has been found an effectual preventive of colie in some extensive lead works at Birmingham, when taken as a beverage by the workmen. Take-of treacle, t5lbs, bruised ginger 8 oz., water 12 gallons, yeast a quart, bicarls soda 1! oz , sulphuric acid, 1! oz , (by weight). Boil the ginger in 2 gallons of water ; add the treacle and the remainder of the water, When nearly cold, transfer it to a cask, and add the yeast. When fermentation is nearly over, add the sulphuric acid, previously diluted with eight times its quantity of water; and then the bicarb soda dissolved in a quart of water. Close up the cask, and in three or four days the beer will be fit for drinking. The sulphuric acid remains in considerable excess in this preparative; which probably acts as a preservation in the system, by transforming the poisonous carbonate penetrating it, into innocuous sulphate of lead.

TRACEMENT OF BURNS .- On taking a general review of the constitutional treatment of burns, the first object should be to relieve the system of an abnormal quantity of fluid that must have accomplated in it in consequence of the arrest, to v greater or less extent, of so important a sceretion as the perspiration. may be accomplished either by the administration of dimeties, by guarded blood-letting, or by encouraging the process of suppuration. Secondly—any appearance, however slight, of supervention of inflammation in the organs contained within the head, chest, or abdomen. should be watched with the numers and and treated, if it does occur, as actively as the the process of suppuration should be maintained or arrested with a due regard to the state of the internal organs and the condition of the powers of the system.

the spot, may be slightly revolved along the floor of the wrether for half a minute, for it seldom excites much pain. Some smarting on the cases requiring medical treatment had occurred judicious means till the forty-fourth day. At

in the Portuguese army in the first half of 1838. The number of syphilistic cases, primary and secondary, had been 700; of gastro-entirits, 283; and of bronchitis, 340. The great relative proportion of the last to many other complaints, specified, is both striking and startling. Portugal being a country to which persons with chest disease have been so often expatriated from this country, nominally for their henefit. But, in reality, Lisbon, &c. have been cried up greatly beyond their merit, as places of resort for invalids; for whom many sheltered places along our southern and western coasts would be found much more beneficial.

Ottom.-This remedy would seem in some maladies to exert an effect which can hardly be traced to its sedative properties, but appears almost of a specific nature. A case is reported of a lady. So years of age, a pimple on whose finger brought on much pain, with swellings in the glands of the arm and axilla of that side, and was supposed to be of a cancerous nature. Nitrates of silver, and merenry, iodine, pills of mercurial ointment, purgation, and a host of other remedies were taken without effect. The pain and sleeplessness of the patient increased, and the wart had increased to a bleeding and ichorous tumour. Local baths of poppy and belladonna were ordered, with half-a-grain of watery extract of opium every night. All the previous symptoms now gradually disappeared; and in two months a mere trace was visible of the original formidable swelling.

Cochineal in Hooping Corgn.—Dr. Wachtb of Vienna has elicited the best results from the employment of cochineal in the above disease, the use of which was suggested to him by an English periodical. He uses a mixture composed of cochineal, 10 grains; bitartate of potass, 20 grains; sugar, an onnee, and water, 6 onnees; of which a tra-spoonful is a dose. In nine cases which he cites, it had produced a cure or convalescence, in periods carving from 3 to 11 days. From the disposition to putridity of the cochineal, no more should be dissolved than is required to last from 36 to 48 hours:—warm water is required for its dissolution. This remedy is observed to be very efficacions, also, in the cough which accompanies measles.

Chemical Decomposition.—Persoz distilled gluten with sulphuric acid and chromate of potassa, and obtained as products, first, carbonic acid, and afterwards prussic acid. The residue contained chromate, alum, and sulphate of ammonia; it seems, therefore, that gluten yields, by oxidation, nothing but carbonic and cyanic acids and ammonia.

New Remedy. Rheumatism, glandular enlargements, neuralgia facialis, &c. are said to have been cured in from 8 to 15 days, by the bi-sulphuret of carbon, externally or internally applied. A celebrated Danish professor orders 1 drop doses of a mixture of one part of the bi-sulphuret, and two of rectified spirit to be taken every two hours, or on external application, an embrocation of one part of the bi-sulphuret to two of olive oil.

Successful Treatment of a Fraction Thigh.—The vis medicatrix of nature has exhibited itself in a remarkable manner in the following case, occurring in the practice of a medical man near the metropolis. Mrs. F. act. 89, of a spare frame, and temperate and regular habits, sustained an oblique fracture of the thigh bone, near its centre. She was immediately placed in bed, and the limb was encased in pillows. Next morning the fractured portions were placed in exact apposition, and kept so by judicious means till the forty-fourth day. At

use Bila on de la - dust buil puit que une cour with the little

this period the apparatus employed for the latter purpose was removed, and the fractured part was found to be firmly united, allowing of motion in any direction. In a few days the patient was enabled to put her foot to the ground, and even to step on it. Little time elapsed before she could move about without the aid of a stick, and in less than four months from the time of the accident she was quite enabled to take exercise out of doors, the weather permitting. No deformity exists in the This ease is well adapted to encourage surgical practitioners, particularly the junior portion, not to be too despondent of asseous union after fracture, even in patients so advanced in life as the subject of the present instance.

SECRETIONS IN DEABETES.—In this disease a practitioner of Bonn has found not only the urine, but the perspiration of the patient also to contain sugar. The same substance wa found in the saliva, which, on being treated with yeast, underwent vinous fermentation, The presence of sugar in the perspiration, &c. of diabetic persons is, however, not constant, as proved by our countryman, M'Gregor. Lelimann, also, was unable to detect it in the saliva of more than one in three persons affected with the disease.

GRAFTING EXTRAORDINARY.—The singular experiment of transplanting a cornea belonging to one animal to the eye of another deprived of that part, has been tried in Germany, and found successful; that is to say, the newly implanted cornea forms an union with the structure in contact with which it is placed. The same event happens even if the cornea in the eye on which it is grafted belong to animals of a different species! And it is further said that the experimenters have been able to promure a partial transparency in the cornea so treated, without which indeed the value of the experiment must have gone for little or nothing,

FORMATION OF THE RED GLOBILES IN THE BLOOD .- Dr. Remak, whose observations on the minute anatomy of the nerves have become well known to the medical world, has turned his attention also to a microscopic observation of the blood globules. He has seen the red globules in the blood of an embryo chick as early as the third week of artificial inenbation, as well as in the embryo pig, an inch in length, in which last he finds they are from four to six times as large as in the full-grown animal. To ascertain the mode in which the red globules are reproduced, Dr. Remak took from a horse 30lbs, of blood on one occasion, and removed a less quantity for several successive days afterwards. On the first day the red globules were very abundant, white only a few colomless globules were present. Next day the latter were numerous and mostly enlarged. having in their interior one or more globules of a pale red colour, surrounded by small granules. On the fourth day it was obvious that red globules, similar to those existing in the blood in an independent state, had been formed within the larger colouriess globules, and set free by the bursting and disappearance of the latter. According to Dr. Remak the clot formed in blood after it has been drawn, is in a great part formed of the films of the colourless globules, correlative to the number of which is its degree of softness.

MALFORMATION OF THE HEART .- An instance of this kind occurred in a child, which when four months old was sent to the Foundling Hospital in Paris, and which died in the infirmary there of dyspnœa, after general cyanosis, in less than a fortnight afterwards. On opening the thorax nearly atlits anterior half

open this, it was seen that the heart consisted of only one ventricle and one auricle, the deep sulens between which was filled with a process of the liver, and a part of the diaphragm. The anriele was much larger than the ventricle, with parietes very much thickened, and at its posterior part the two venæ cavæ opened into it by a sort of sinus, apparently a rudiment of a right anricle. The pulmonary veins terminated in the ordinary manner. The ductus arteriosus was wanting. No other viseus was malformed

ANEURISM .- Two remarkable cases of this disease have been recently made public—one affecting the ascending aorta, and the other of the abdominal portion of that vessel. The first case occurred in a short and muscular man, 35 years of age, admitted as a patient at the Birmingham General Dispensary. He complained of a short dry cough, with shortness of breathing, and a sensation of oppression at the upper part of the chest. He dates his illness from an accident he had met with about four months since, when the shaft of a cart was forced violently against his chest, in which he felt great pain for some days after. On percussion of the chest, the right side was found generally to be rather duller than the left, but not so dull as to have attracted much attention, but on auscultation, the respiration of the left side was found louder than usual, accompanied with a loud rasping sound which extended all over the left side of the chest, at its greatest intensity under the first and second costal cartilager and sterno-clavicular articulation. Underneath clavicle a peculiarity was perceived, which Dr. Fletcher thinks is not uncommon in aneurisms of the arch of the aorta-namely, the respiration was bronchial, and was interrupted, synchronously with the arterial pulsations. No normal pulsation was to be felt in any part of the chest; the man was subject to giddiness and singing in the ears, but his bowels acted well. Bleeding to twelve ounces; aperients and saline medicines were prescribed; perfect rest, with very mild and sparing diet, and avoidance of all stimulating drinks. For about a month, little permanent alteration took place in the condition of the patient, except that he continued to get thinner. At this period pain and dulness of sound in the region of the heart augmented; pericarditis supervened, and the respiration had a sub-crepitant rattle; lecches to the seat of pain and aperients were ordered, but the oppression, pain, and dulness continued to increase. Intense dyspucea came on, and the patient died.-On examination, about six onnees of clear fluid were found in the pericardiam, about twelve of the same kind of fluid in the right plenra, and about half the quantity in the left. No adhesion in the plenræ; left lung perfectly healthy; right lung ædematous in its whole extent. The pericardium was in-flamed, and affected with hypertrophy and dilatation, like all the eavities of the heart except the left anriele, which was so pressed upon by the anenrism of the ascending aorta as to be lessened in its cavity, and to have its appendix almost completely obliterated Upon the sigmoid valves, on the posterior part of the ascending aorta was an aperture 13 inch in length, and in width about one-third of the circumference of the artery, communicating with an aneurismal sac, the parietes of which seemed formed of the external coat of the artery only, and which measured about three inches and a half in its perpendicular measure, and about ten inches and a half in circumference. It projected posteriorly, to the right about a third, and about two-thirds to the left, pushing down was occupied by the pericardium, and on laying the pulmonary artery out of its normal situa-

tion and completely occupying its place, and projecting in its inferior third into the cavity of the pericardium. In this situation, its wall was so thin, that had the patient survived long, most probably it would have been the seat of rupture. On the distant side of the aneurism.

the aorta seemed perfectly healthy, In this case were several circumstances of interest. Dr. Fletcher, under whose care the patient had been, stated that it confirmed "hiopinion respecting the incorrectness of that part of the late Dr. Hope's diagnosic of these diseases, where he says (in the third edition of his work on di eases of the heart) "an anenrism of the asceoding aorta or arch would occasion a pulsation, muranir, or tremor, above the right clavicle or on the right side of the sternum, or above both clavicles." There was in this case no pulsation, murmur, or tremor in that situation, and Dr. F. had seen other cases in which there were not." The second case to which we have alluded, was that of a gentleman, about 38 years of age, of active habit, who complained of a pain in the back, which had been gradually increasing for a long time, and had suddenly become much more evere on his hearing some distressing intelligence six weeks previously. On examination with the stethoscope, a loud and distinct bellows-sound was heard on both sides of the spine, which, with the other symtoms, left little doubt as to the nature of the disease. The general health declined, the appetite failed, the patient gradually became weak, emaciated, and exceedingly nervous; there was strong pulsation in the epigastrium, but no tumor, nor was the action of the heart much increased; the pain in the back was of two different forms-one was a continual sense of weight and measiness, which never intermitted; the other was an acute, sharp, darting pain, felt on each side of the spine, recurring generally at midnight, and which, for a considerable time, always yielded to anti-spasmodic remedies. As the case proceeded towards its termination the emaciation increased, the pains became more severe, and extended into the lower extremities, particularly on the left side. In this manner six months passed away, when a rupture of the anenrismal sac, attended by symptoms, which our limits will not allow us to describe, carried off the patient. The abdominal aorta was found to give origin opposite to the cæliae axis to a tumour, about three inches in diameter. extending to the right side, projecting in front but little beyond the level of the spine. The hodies of the two first lumbar and last dorsal vertebræ had been absorbed from the pressure of the tumour, which presented a 'cavity filled with lamellated, dark, tibrous matter. Behind the peritoneum, (on the left side of the spine, an immense clot of blood extended from the diaphragm down to Poupart's ligement, which had evidently been caused by a recent hæmorrhage referred to a period about two days previous to death. The practitioner who reports this case, remarks, that no symptom of aneurism is more pathognomonic than the pain, when viewed in connection with the other symptoms, and it was the peculiar character of this symptom which led him to diagnose aortic aneurism in the present case. Epigastric pulsation and bruit de souffle might occur in cases where there was no organic disease. He had met with a case of aneurism of the thoracic aorta, in which, as well as in this, the opening occurred in the posterior wall of the artery, and the pain endured by the patient was, also, of two kinds; one an aching, boring pain, which was constant; the other an occasional nipping pain, darting along the ribs or in other directions.

IMPERFORATE PHARINY AND ANDS.-A curious instance of this kind lately occurred in the practice of a gentleman at Liverpool. A child of the full period, apparently well formed, lived only thirty-six hours; and death having heen apparently produced by suffocation from the administration of a little cream and water, the body was opened. The pharyny, one and a quarter inch only in length, was found to terminate abruptly in a cul de sac, though the lower part of the resopliagus was perfectly formed and communicated by a rounded aperture with the trachea, just above its bifureation. The rectum also terminated in a pouch, and communicated by an aperture with the prostatic portion of the urethra. There was only one kidney, which stretched across the vertebral column, being, however, supplied with two ureters and suprarenel capsules. No other details of importance respecting the ease have been given.

MORTALITY I ROM BURNS .- The period at which death may be expected to occur in cases of extensive burns varies considerably, of course. But, on an aggregate of 50 cases, 33, or 66 per cent., have proved fatal in the first week-27 subjects dying within the first 4 days -- and the other 6 on the 3 following days. Of the remaining 17-8 died during the second week, 2 in the third, 2 in the fourth, 4 in the fifth, and 1 in the sixth. Thus, it happens that the greatest number of deaths occur during the first few days, in the stage of congestion, or while that is passing into an in-flammatory condition. After this period the mortality diminishes progressively till the fifth week, a period fatal mostly from suppuration, purulent infiltration of the lungs, &c.

LIQUOR AMNII .-- Vauquelin and Buniva found 100 parts of this fluid to consist of 98-8 parts water, and 1-2 albumen and salt of lime and soda. Geoffrov St. Hilaire says it contains atmospheric air, but Lassaigne and Cheurevil believe the gaseous fluid in it to be a mixture of carbonic acid, gas, and azote. Tromhirz and Gangert found in it benzoic acid and urea. Dr. Davy has also detected urea in the liquor amnii, but this principle is not constantly found in it. There can be no doubt that this, and the other constituents of the urine, are secreted by the kidneys of the fortus long anterior to birth, and that in a perfect state of the organs the urine is constantly escaping through the bladder, and mixing with the amniotic fluid. Dr. Rees had lately analyzed the liquor amnii, and found it to contain in 1.000 partswater 983.4, albumen 5.9, albuminate of soda and chloride of sodium 1.6, and traces of alkaline sulphate.

STATISTICAL OBSERVATION.—The twisting of the cord round the neck of the fortus is a very common occurrence. In 1,920 cases, Dr. Churchill says it has been observed 201 times. There is no doubt that it is a very common case in protracted labour.

Causes of the Progress of Hydropa-THY .- Dr. Symonds, in his lecture before the British School of Medicine at the opening of the present session, attributed the popularity of Preissnitz and his system to the following circumstances. First, the system is very simple: diseases may be manifold, but the remedy is single, though variously applied; second, the universal application of the remedy seems to harmonize with its universal distribution over the globe; third, the system dispenses with the use of drugs, most of which are disagecable and many injurious; fourth, it gives ample proof of the super-abundant

phoresis, which is a process much in favor to say-" After the present popular excitement has passed away, cold water will, like all other remedies, find its proper level." (Preissnitz is singularly unfortunate in the fact of water inevitably finding its level in the end.) "The supposed universality of its powers is one of its chief attractions at present; and when that has been disproved, as it surely will be, there is ground for fearing that the remedy will sink in popular opinion to a degree which will be the exact counterbalance to its present undue elevation; the dyspeptic, the hypochrondriacal, the nervous, and the victims of ennuiand satiety, as they at one time invoked the mummeries of mesmerism-at another swallowed, at the bidding of an empirie, hundreds of vegetable pills -or at another, flew for aid to Wildhad, and Baden-Baden, and Schlangenbad, and were disappointed-will not now unnaturally appeal to hydropathy, and perhaps with some better success. But the subjects of fevers, exanthemata, and acute visceral inflammations, the unhappy sufferers from organic diseases, and those who require the skilful knife of the surgeon-all, in fact, who are in the direct need of the remedial art, will, we venture to say, remain adherents of the practice which has been built upon the confirmed observation of disease for successive centuries, and upon the accumulated improvement which every year has added to the knowledge of the human body in health.'

Function of the Spleen.-The attempt to determine this long contested question at present agitates the brains of many inquirers, not only in this country, but, as it should seem, by sympathy in distant British colonies also, Dr. Haygarth, a practitioner of Launceston, Van Diemen's Land, appears to accord with Mr. Eagle in considering the spleen the sceretor of the colouring matter of the blood. He argues as follows:-"All the fluid productions of the system necessarily have their producing structures. For producing the bile there is the liver; for the urine, the kidney; for the chyle, mesenteric absorbents. But, is there any fluid existing in the body which has no organ assigned for the production of it? There is, What organ of the body forms the blood? The heart propels it; the vessels distribute it; the lungs aerate it; the chylons vessels supply replenish it; the kidneys and liver purify it. But what organ forms—what organ produces it? When I find a certain fluid going into an organ, and a certain fluid coming out of an organ, and none other fluid than this either coming out or going in, I naturally come to the conclusion, that such organ is for the purpose of exerting an agency over the fluid in question. The fundamental constituent of the blood, -- that element which peculiarly constitutes it blood-is the red principle of this fluid. The source rof all the other constituents of the blood can be accounted for; but in what region of the system is the red principle of the blood elaborated? I shall not here enter into a detail of those instances of impaired states of the system in which the red principle of the blood is defective, and in which, at the same time, the spleen is palpably and principally known to be at fault-such as in the pallor attending the sequelæ of intermittents, and in the systemic condition characteristic of chlorosis; but I will simply remark, that in these instances we have a visible defect in the system, and an especial organ visibly derauged; and the concomitants point out plainly enough that the one energies of many of the invalids who seek | condition is dependant on the other. The

the blood."-A letter from Mr. Jackson, pubwith most invalids. But Dr. Symonds goes on lished in our last week's number, ably expose. some of that gentleman's opinions on the same subject, and contains some strictures on the abstract previously set forth of the views and discoveries of Mr. Stevens, respecting the structure and function of the spleen. We shall here give an abridged statement of Mr. Stevens' labours and conclusions, which have just been made public in a contemporary periodical: "The spleen comprises a mere congeries of capillary vessels; for, on examining the circulation in that organ by the microscope, during life, it becomes quite plain that it contains little or no intervening nervous parenchama, or extra-vascular tissue. The ultimate expillaries are remarkably uniform in size, carrying a single file of blood corpuseles. Now capillary courses may sometimes be seen to run side by side, though in opposite directions, without sufficient distance existing be-. tween them to include anything more considerable than what may be supposed to be the couts of the vessels. I have enneluded that a eapillary artery and vein sometimes run together, meeting another capillary artery and vein—the artery of the first merging into the vein of the later, and rive versu. But such vein of the later, and vice versu. appearances are only to be detected in particular places, and upon very attentive watching, as the whole field of vision is in motion. The arteries communicate directly with the veins, and not at all with the lymphatics, as most injections of the dead organ would lead one to suppose. If the question be asked, 'What does all this blood here?" we must be content to say that we simply see it passing. The splenic artery is the chief branch of the cæliac axis; the spleen thus receives a very large portion of arterial blood, which, after traversing the capillaries of the organ, palpably without any deduction, is delivered into the portal circulation" Mr. Stevens admits that the secretion of bile is palpably diminished when the splenic blood i cut off from the portal circulation." But the result which he gives, as that to which his micro-copic observations have led him is, "that the spleen is merely the necessary interposition of capillaries between the splenic arteries and [the venous portal circulation;" to avoid the "" unpreceportal circulation; to avoid the dent d infringement of the laws of general dent d infringement vanous anatomosis." Thus anatomy-anarterio-venous anatomosis. Mr. Stevens may be considered as uniting with Mr. Jackson, in regarding the spleen simply as an assistant circulatory organ; in opposition to Messrs. Eagle and Haygarth, who believe it to secrete or claborate the colouring matter of the blood .- In this undetermined state the question still remains.

CAPLICLOWER EXCRESCENCE OF THE UTERIS .- A case of this kind occurred in the Dublin Lying-in Hospital: the tumour was removed by ligature. On making a secwas seen to be much more complex than it had seemed when examined externally; it was finely laminated, appearing in section as if formed of somewhat parallel plates of a whitish matter, separated by reddish lines, which proved to be the layers of a beautifully vascular, and very thin membrane. In a morsel of the membrane highly magnified, Dr. Anderson detected a fine fibrons structure of great delicaey, absolutely swarming with blood corpuscles and cells, to the presence of which great part of its apparent thickness seemed due. The course and distribution of the capillary vessels could not be distinguished with utilicient exactness. Besides the corpuscles which retained their form, there were its aid; fifth, it generally induces dia- spleen is the laboratory for the red principle of others apparently undergoing various changes, exhibiting every veriety of shape, and mixed with nucleated cells of different aspects. Of the latter, one were clear, with a ingle nucleus; others exactly like Dr. Barry's figures of the ovum in certain stages, being full of young cells; there were caudate corpuscles, like those Muller saw in cancer, and other hodies of various shapes. In the white lamine, examined in the same way, no fibrous basis existed; the whole consisted of an uniform mass of cells, precisely alike, of an irregular form, from mutual compression, and full of a granular matter. On washing away the white matter, the membrane remained entire. It did not consist of parallel lamine, but was beautifully flocculent, branching out very complexly from a thicker central portion or stalk. The cauliflower excrescence, then, has for its basis a membrane of extreme tenacity, ramifying in a most complex manner, amply supplied with blood, and possessing the power of forming from that blood a whitish eell substance, which is deposited in a layer about it. Hence each portion of the membrane forms, after maceration, a kind of lobule or flat villus, but in the recent state these adhere closely together, so as to give the whole tumour a nodulated aspect.

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THE MEDICAL TIMES:

A Journal of English and Foreign Medicine and Medical Allairs

No. 176. Vol. VII.

LONDON, SATURDAY, FEBRUARY 4, 1843.

FOURPENCE.

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COURSE OF LECTURES ON THE THEORY AND PRACTICE OF MEDICINE.

C. J. B. WILLIAMS, M.D., P.R.S., Professor of the Practice of Medicine, and of Climcat Medicine, at University College.

GENTLEMEN, -At the close of our lecture, yesterday, we were considering some of the varieties of morbid respiration. There are two more that may be mentioned; the regularity of the succession of respiratory motions varies not only in the two sides, but altogether; and there may be irregularity, likewise, as to the number which take place in a given time. Frequency is the usual standard: in an adult this is about twenty in a minute; so that there are about three pulsations, or rather more, to every respiration. But, by disease, espirations are very often much increased in number, and rise as high as sixty a minute, so as to become in peculiar diseases equal to the pulsations. They Lear, however, a general relation to the pulsations, for where the pulsations of the heart are increased, the respirations are increased likewise. In many instances, the proportion of respiration to pulsation is as one to three, so that when the pulse is 120, the respiration instead of being twenty is about forty, and so forth. This is the more usual, and the more normal condition of the respiration. Respirations sometimes, on the other hand, are extremely few, sometimes only as many as ten in a minute.

Now, this variety of respiration is not, as you may readily suppose, connected with any disease of the respiratory organs; it almost always arises from disease of another kind, more particularly from disease of the nervous system, diminishing, somewhat, the sensibility of the relation, on which the motions of respiration depend. And these extremely rare states of respiration are found in disease of the brain, as in apoplexy. Very frequent breathings may take place without relation to the respiratory organs. Where the motions of breathing do not take place in regular successionwhen one motion takes place after another, at a considerably longer period than usual, it does not necessarily indicate a derangement of the respiratory apparatus itself, but it rather depends upon some disorder of the nervous system. gularity of respiration takes place in great congestion of the lungs.

Besides the frequency of respiration we must notice its extent. Where the respiration is frequent, it is often very shallow, each movement of the respiratory machine being quite superficial or shallow, and the breath not deeply taken. Now, this may proceed from one or two causes, it may be from disease of the lung, the lung not being penetrable as in cases of phthisis, where the lungs are extremely diseased, and air cannot enter fully and deeply into the chest. This is one set of cases important to be observed in connexion with disease of the respiratory organs.

Another phase of diseased respiration may arise from debility, as in cases of fever, or other serious and representations of the physical condition of

illness, when from great weakness patients have not the power to make an increased effort; what takes place then is a series of short breathings, as weak as they are frequent, owing to the want of perfection in the development of the motions. But the mode of distinguishing one from another is obvious. In the latter case, although the breathings are short, they are produced only by an effort. The patient can, by expanding his chest, take a deep inspiration, so that although the respirations may commonly rise to forty or tifty in a minute, yet if you desire the patient to take a long breath, it will be taken deeply and fully by a supplementary effort. This kind of disorder of inspiration is very common.

Frequency of breathing is generally met with in discuses of the respiratory organs themselves. I have seen it as much as sixty in a minute. But where there is this want of relation between the frequency of the breathing and respiration, and where a short and free breath can be taken on an effort, you may be quite sure of disease in the neryous system, and weakness of the organs, instead of disease in the respiratory organs themselves.

Respiration is sometimes prolonged to a peculiar degree. This may apply to either inspiration or expiration : sometimes both are prolonged. Where both are prolonged, it usually arises from some obstruction in the larger tubes of the bronchii, as in the case of croup or spasmodic affection of the Here the breathing is prolonged; intubes. spiration is prolonged, often accompanied by a peenliar sound, and expiration also. You may trace this to its source in a great measure, by observing the condition of the inter-costal spaces: the respiratory apparatus acting with freedom, and there being no fault in the hung itself, if there is a tault in the tubes by which the air is supplied, when inspiration is applied with force and vigour, atmospherical pressure will act on the chest and inter-costal spaces, and cause them to be more depressed than usual. Sometimes the intercestal spaces swell by the effort of inspiration, owing to the difficulty of the passage of the air out of the proper tubes. The proportion between inspiration and expiration, is important to be observed in many particulars, it is very often affected by diseases in the lungs and the tubes. The details we shall consider under the head of particular diseases.

So much, then, for sight and touch, as means of investigating disease within the chest. certainly do much to prepare for the more accurate and definite, but more difficult examination by the sense of bearing. Hearing may better serve to indicate the condition of the motions of the chest, and in consequence of this not being commonly applied for investigating disease generally, it has assumed the character of a separate science connected with the study of disease. Auscultation, as it is called, ought never to be separated from the study of pathology on the one hand, or the proper study of physical signs on the other. It is merely one mode of obtaining physical signs. There is this difference between the sense of hearing, and sight and touch, that in listening to the physical signs produced by disease, we can distinguish them when they are not obvious to sight and touch, though sight and touch are more commonly used, We are more familiar with the indications that take place in the case of hearing, in matters with which we are familiar, for instance, the sounds of language, or different voices in the streets, and the footsteps of persons approaching, and so forth, or we learn by experience to distinguish these different sounds; but we are not in the habit of practising our hearing to distinguish between the minute sounds, that take place in the changes of motions within the body; therefore it becomes a separate study; and, again, these signs are studied as signs

the organs both in a state of rest, and in a state of motion.

Then, with regard to the mode of studying this phenomenou of sound, or acoustic signs as it is called, there are two modes which I shall not enter into particularly. One is by mere individual experience, the result of attention to the sounds, and observing what motions of matter produce those sounds, observing the consonance, accordingly, in matters of memory and observation. This is what the child does in practising its senses; it studies the thing until it becomes familiarized with it by observation. The other mode is by generalization of these observations, and the experience thus obtained; that is, by referring all these different phenomena to the general laws which regulate the production, transmission, reflection, and so forth,

Now then there are laws of sound as well as laws affecting matter and mind, laws which apply to the generality of cases, and therefore when you get hold of a law, and understand that law, you are master of the general facts which are the exemplifications of that law. And this mode of studying sound is so far useful that it gives us it were a handle to the phenomena and their development by observation; and after observation has made us acquainted with a great number of phenomena, by collecting them, they become intelligible signs of health or disease. We cannot study ausenltation without a certain combination of them all; even those who reduce the study to the most empirical mode, by observing and recording what they observe, cannot get more than a generalization of the phenomena. Auscultation is useful to make us acquainted with the laws of sound, because it makes us more familiar with the changes of disease than we can be by observation. The proper way of empirically observing accresses sounds would be independent of pathology. The student or medical man observes that in certain cases the chest sounds dall on percussion, and in these cases certain remedies are useful. He might go on in this way independently of any pathological knowledge to make auscultation useful to him, and no doubt it would be so in a certain sense. I understand that veterinary surgeons, even blacksmiths, without anything like a scientific knowledge of the heart, have been in the habit of making use of auscultation for many years past. This may be very useful now and then as a guide of the heating of the pulse without understanding the relations of the pulse; but this is a very reserved use of it, and it is in no way so useful as it becomes when the mode in which the signs are produced is understood. For a proper study, therefore, of the nature of the phenomena of sound in the chest, and a proper study of those general acoustic laws which regulate these different phenomena, you will do well to study some works on acoustics. Several elementary works may be necessary for this purpose. I have a little work on pathology and diseases of the chest, in which there are a few general remarks on this subject, with regard to sound, most applicable to the study of the sound of disease. You may enlarge on the subject. My reason for noticing it was the egregions errors into which both writers and teachers have fallen upon the subject of auscultation, errors not only with regard to experienced phenomena, but errors of anatomical fact. I could give a great variety of illustrations from various sources.

Now, the first mode of judging of the acoustic properties of bodies or forms that I shall mention, is by percussion. This is applicable to the chest and other organs in a state of rest. This mode of examination was first applied extensively by Eherenberg, and it has been extended greatly by Lacunee and others. No a, this may be illustrated by phenomena on the chest itself, or by any other way. When the chest is struck with a certain degree of

force, it gives a certain degree of hollow sound. which the lungs become compressed, and then the parts from which the sound is desired to be obwhich sound is very different from the sound given by striking the thigh. It is easy to distinguish be-tween the two sounds. Now, I take the principle on which this depends as a guide to assist us to understand the phenomena, and to mark it altounderstand the phenomena, and to mark it altogether. This was formerly said to be produced by the hollowness of the chest. A person striking the chest and obtaining thereby a hollow sound, this was supposed to be an indication of a hollow; and some who attempted to apply acoustic laws to this, wont on to explain that it was the recibration of hollow; to some a produced by the interior of the chest only recision. The lieve few things more injurious in a practical art than erroneous interpretations. It improper applications of a set need prelations. In improper applications of a science, and I conocive this of the target at explanation is not accurate, it is not consistent either with fact, as by examination, or the laws of sound as generally developed. As an example of this hind, an illustra-tion given is to suppose the chest upon percussion gives a hollow sound in the same manner as a buttle gives a hollow sound in the interior. Now, we may bring this to an experimental test. If it deperded upon the explanation given, it is very well known that, in conformity with the laws of acoustics, the hollow sound produced by striking a hollow body is in exact relation to the size of the interior. and to the freed in with which the interior communicate: with the exterior, and that the sound would be greatly me lift d by closing the orifice. The stand becomes changed to quite a different character. Now, if the sound profite of in the chest is of a sin, for kind, it ought to be no brief by the free dente in high the air communicates from the exterior to the interior. When I strike my chest with my mouth open and speaking, having a free communication with the external air, the sound is precisely the same, as when I close my mouth end cl. so the glottis, so that there is no communication at all. The sound is the same under both circulastances. Again, mother mode by which this can be proved to be not the case, is that by varying the size of the eavity, the sound will be a different one: the internal resonance of the covity will be deep toned in proposition to the size of the earlier in I by traking the cavity small or it can be easily provid. Now, we can air rathe size of the cavity of the chest by expression, yet the difference is succeivarparent. I take a full breath, and breathe cut, and the sourch is dill the same. It appears, ther fore, clear, that who ever it depends upon, it do s not rest in that general law by which hollow scand is produced. I take it, then, at once, that the cause is, the the sound which is thus produced -the sound on percussion - depends on the vibration of the walls of the chest; it does not depend on the hollow within the cliest, any further than that holl, we enables the walls themselves to vibrate and give a sound, and those walls vibrating are the can is of the sound. These walls, then, constitute the big vertels, and so vibrating cause the sound; but they derive a chameter, in their vibrations, from the lody or helics undernouth them. If, for ire at the lody or bodies undernoath them. If, for instance, these bodies are the large filled with air, then the samely if for the large filled with air, then the samely if for the vibration more casy, and when there is nothing filled with air down in court in the vibration in the vibration is still element at the relations. It can be not be read to see in the vibrations, and there is, in the latter we can in the other hand, and impedant and refers to the more by of the vibrations, and the read by the relations of the read by the relations of the read of the second of the sources. If they are so there is not the control of the external parts, as first with the track at the doke letter the check interfers the sound, in the doke letter the sound of them, nor can you get it out of a sould be sound, in the doke letter the sound of them, nor can you get it out of a sould be sound, in the doke letter the vibration, and the sound, in the doke letter the latter the vibration, and the sound, in the doke letter the latter the vibration, and the course short red doke letter the latter the vibration of them, nor can you get it out of a sound the sound, in the doke letter the vibration, in some cases where it is illustrated by the walls then free, becomes short red doke letter the latter the vibration around the redain. And in some parts of unity closely the vibration of the starffled with edema. And in some parts of unity closely the vibration of the remained of the vibration is the vibration of the external parts, as in some cases where it is illustrated by the walls the godies at the vibration of the vibration and the sound of the vibration is the difficulty in the vibration in the vibration in the vibration is some cases where it is illustrated by the walls the province of the vibration in the vibration in the vibration in the vibration in the vibration is suit that the vibration is suit the vibration in the vibration in the vibration is suit to sum, the vibration is suit the vibration in the vibration in the vibration Let know whether we can get a better illustration of it. The sound or the vibrations of the het will represent the mode in which the vilirations vibrate. not notike the sound that some very good class-tid preduce. Suppose Lintraduce some spangy or percus may or into the lot, the vibrations will then has a such a loracined. If I introduce a handkerold of or our files of that kind into the interior of a bestle, less less a the samel as describillar sound. somethic shand, to dia tubular somidwill be to book a but not so in the hat Take one there in an then a suppose we introduce a solid body into contact with the wells, it will at once deaden the sound. This will illustrate the way in

pose we pour some water in the hat, the sound becomes dead; remove it, and the sound is restored. By this very simple illustration, we have a very good proof that the walls themselves of a body constituted like a hat—the chost is in some degree like the crown of a hat-are sufficient to cause the sound independently of what is contained in the interior, but the interior being dense modifies the sound. The chest is constituted by an elastic frame of hone and cartilage, covered with membranous expansions and integuments, and so forth, thus constituting walls free to vibrate, and they receive the character of their vibrations from the organs which are underneath. Accordingly, when the longs rise, the sound of the chest is clear, because the walls are free to move and to vibrate, the upper structure of the lung not interfering with the vibrations. On the other hand then, over the liver, which is a dense solid organ, the sound, instead of being so clear, is dead, compared with the sound produced in the chest. The sound that takes place over the region of the heartparticularly on full expansion which presses the heart in contact with the walls of the classis here modified, owing to the contact of the heart with the walls of the chest. So also with regard to bodies of a different density to those which he next to them in their natural position. If at the upper part of the close the lungs become consolidated by disease, the sound will be rendered deader, and the vibrations will take there with greater rapidity; and that taking place, he character of the vibrations will be ruled. This is a law of neonsties, that sound varies according to the rapidity of the vibrations. If there are many vibra-tions the sound will be like a high now, if few the sound seems dead. Different circumstances will deaden the sound, and tend in some degree to raise the note. This is another important fact. In some cases it is difficult to say whether the sound is deadened in tone or not. We can distinguish whether it is different in tone; and though diseases do not tend to dead a die sound, they may raise the tene, by rendering the vibrations more rapid. Water in the cavity of the cheet may deaden the sound more than the consolidation of the lung will do. This may be illustrated by the experiment of the hat. On the other hand, if any circumstances increase the terful contents of the chest, and move or diminish the solid matter, the chest has a tendency to produce increased vibration; there is more resonance than asual. This arises in cases of a plas accordilated a addition of the fireells, the lungs commining a greater quantity of sic. In flaceld emploisance there is a diminution of proper consolidated matter in the chest, and here the sound on percussion is deeper than usual, and more resonant and longer. There is another example,as when air is imused between the lungs and the walls of the chest, and this is called pur-Now, as you may be ready to suppose, this renders

the minima for instance, the breast and muscles in very muscular subjects, and those parts of the chest where there are deep layers of muscles, it is difficult reclicit the proper sound owing to the thickness of the vealls

Now, under these cheumstaness, what you want is something to supply the debets of the exterior. and this you have in the playimeter invented by M. Piorry. He recommended percussion to be much on some solid body, rather than directly on the chest, in which case yet can elicit sound pulmonary. The sound is opposed by the entire from parts otherwise too flaccid to give a scepula, and sometimes by the long ridge of the sound. The placeter is simply pres of on the scapula. Remember the structure of the lung:

sound becomes deadened. The lungs becoming tained, and percussion is made by means of consolidated by disease act in the same way. Supthe clacking sound which is produced. There are other inventions made to counteract this clacking sound. There can be no doubt that through the medium of the pleximeter more delicate results are obtained than where percussion is applied immediately to the chest. Dr. Golding Bird invented a pleximeter, which consisted of a sort of hammer, and a plate to strike upon. With this you would go to the patient's chest, and with a large formidable hammer, enough to frighten some nervous rationts out of their wits, who would fancy you were going to inflict some fermidable operation upon them. The German physicians invented an application of this kind, and Dr. Bennet made some improvement upon it. When the thing was about I set my vits to work to try to find out something that would answer the purpose; and this is, a little bit of whalebone covered with velvet, and a little hammer. This little instrument is very portable, and with it you may perform percussion in all cases where it is very difficult to use the finger, and get the most delicate results that may be obtained by the more formidable instruments. I do not see that the apparatus is absolutely necesstary, and a little practice will enable you to obtain immediate percussion by using the finger and the left hand, placing the hand on the part, and striking it with the finger of the right. You may thus obtain percussion over the whole surface, or you may place a finger on a particular part to practice percussion on that part. The best recommendation of the hand is that you are not likely to leave the apparatus behind you.

There are varied modes of percussion; sometimes it is short, sometimes gentle and flat, and sometimes it is fillipping, by which sound is deve-

loned with very little force.

Now, as to the test of the condition of the chest by percussion. You will remember that percussion is an indication of the density of the parts within the chest, and you must remember what those parts are—what is the natural position of the organs within the chest, in order to make the sounds on percussion available as signs of their condition. I have endeavoured to make this intelligible by representing the class as a sort of transparency, so that you may see the apparatus within the walls. Now, then, with regard to the examples of sound. Just as the different organs lie in their natural conditions, the sounds on percussion can be modified by a combination of these organs. About the upper parts of the chest you will have a pure pulmonary sound. When you come to the contents of the abdomen, about the nipple, or between the fourth and fifth rib, you will have a more foreible sound on percussion, not quite so clear. The sound is clearer than when you get the mixed sound of the liver and the lungs together, which is, in fact, a mixed sound, the two bodies modifying the vibrations of the chest. The same thing is observed with regard to the region of the heart. In the upper region of the heart, or the left side, or the axilla, you have a clear pulmonary sound: and when you come to the third rib, close to the sternum, or between the fourth and fifth rib, nearer to the breast, the sound is more modified, more particularly by foreible percussion, which elicits the sound of the interior as well as the exterior. Coming over the region of the heart you have not so good a sound as you have higher up. And that will be medified still more by expiration, which increases the contact of the heart to the chest. About the region of the heart the sound becomes modified by the intestinal or stomachic organs. There is a bottle like sound, arising from the contents, and likewise from the walls of the stomach being free to vibrate. There is the tympanitie or drum like resonance; a mixed sound, which s obtained at the back part of the chest. In the chest, the sound is more purely pulmouary; the walls of the back are thicker, covered with a greater thickness of muscle, and by the scapula; and in short subjects, the sound is not so clear as in the lateral parts of the chest, but what you do get is they do not slope out so much, they are not so lengthened anteriorly as they are posteriorly, consequently there is not the transmission of the liver sound behind as before. The same thing may be said with, regard to the intestines opposite the hollow of the diaphragm, in the lower part of the back; here you get an intestinal sound, mixed

up with a pulmonary sound.

This is the natural condition of the chest, and 1 have already adverted to some of the modes of developing sounds from the superficial and from the deep scated parts. The sounds from the superficial parts are to be gained by superficial percussion; by percussion by a stroke so gentle, that it shall not extend to the deeper parts, as when you strike an image, you hear nothing but the sound of the image. But suppose you strike harder, then you have not only the sound of the image, but a sound composed of that of the image, and the table on which it rests. This is a compound sound; the other is a superficial sound. The same thing applies to the walls of the chest when you strike them gently, you get a superficial sound, and accordingly if you want to know the condition of the lung which is lapping over the liver, and, independently of the sound of the liver, you use the gentle fillideing percussion; but if you wish to know the condition of the deeper scated parts, you use more forcible percussion. The same thing may be said with regard to the other parts, and may be rendered available in disease. Percussion is the test of the condition of the chest, not only when it is in a state of rest, but when the lungs are expanded, when the motion of respiration takes place. Also, with regard to the heart. The sound is considerably more dull on expiration than on inspiration; on the other hand, if there is adhesion to the perfordium or the chest, or a great enlargement of the heart, or the lung is diseased, and expiration does not take place, then you have a difference between full expiration and full inspiration which does not exist generally. On the other hand, if the lungs are permanently in a state of full inspiration, or in the case of emphysema, this will make no change in the sound on percussion, (whatever efforts are made to perform percussion on the chest,) nor a resonant sound over the region of the heart. But the great rule in the application of percussion is comparing the opposite sides. There is a correspondence between the sound given out by the opposite sides. Accordingly when we wish to know a healthy condition of sound, we judge not only whether the sound is clear or dull, but whether it is as clear as the corresponding point on the opposite side. In some cases, the sound is dull and not equal upon comparison, but, in clear cases, you have to ascertain the depth of the mo-Sometimes disease affects one side, and not theother, or else it affects one more than the other, and hence comparison is the great test or means of indicating percussion.

LECTURES ON CHEMISTRY.

By JOHN SCOTFERN, M.D., Lecturer on Chemistry, at the Alders are School of Medicine.

The next element we have to speak of is chlorine, which, whether considered as a medical agent, or in relation to certain theoretical views, which are intimately associated with its history, we shall find to be an exceedingly interesting body. Chlorine was discovered by Scheele in 1774, who called it dephlogisticated marine acid. He prepared it by distilling muriatie or marine acid, with the black oxide of manganese, which latter was supposed to deprive the acid of an imaginary substance termed by him philogiston. I have before now had occasion to remark that this term, phlogiston, was not very exactly defined or understood, even by those who were in the habit of using it most, being like the word sympathy, so much employed in medical practice, one without any definite meaning, but serving admirably the purpose of simplifying an explanation if not an idea. The word phlogiston may, however, in many cases be translated hydrogen, which, if done in the present instance, Scheele must be owned to have had a cleverer comprehengion of the nature of chloring than any subsequent chemist until the time of Dayy. The French eles whilering being an exceedingly britating enbounce stages cannot be immediately traced

mist. Lavoisier, and his colleagues, in their spirit of generalisation, laid it down as an axiom, that oxygen was the sole acidifying principle, therefore they maintained that the dephlogisticated marine acid of Scheele, or chlorine, must necessarily contain oxygen. This view was adopted until the year 1810, and when Davy first made known his doubts as to its correctness, he was regarded as a kind of scientific infidel. The French theory of the composition of chlorine, broached as it was at a period when the nomenclature of chemistry was undergoing a complete revolution, influenced, as may be well imagined, the visible structure of this science, to a very great extent, and as a consequence, the opinions and prejudices of men. Indeed, on easting our glances where we may over the wide field of chemistry, we cannot help being struck with the peculiarity of its nomenclature, as it regards the pertinacity with which chemists have missted that oxygen must necessarily form part of every acid. This fallacy is too deeply mingled with the science and its noncuclature for any one to expect its complete removal. Chlorine does not possess any acid properties, although we find it to have been called dephlogisticated marine and oxy-muriatic acid. Davy, in 1810, proved that, according to the strictest logic of chemistry, chlorine must be regarded as a simple body, in as much as oxygen, far from being loosely combined with muriatic acid in its formation, as was imagined, could not be proved to exist in it at all. This view of the nature of chlorine is now universally received, and here its history terminates, Chlorine is found in both kingdoms of nature: although its properties are such that it would be fatal to both animal and vegetable life, if existing in an uncombined state. In the inorganised kingdom, it chiefly exists in combination with sodium, forming, in various parts of the world, rock salt, and also in the ocean. It is also found in combination with magnesium, calcium, lead, silver, and other metals. In combination with hydrogen, forming hydrochloric or muriatic acid, it escapes oceasionally from the eraters of volcanoes.

In the organised kingdom it is found in combination in both animals and vegetables. Sprengel affirms that maritime plants exhale this gas chiefly during the night. Hydrochloric acid is said to be a constituent of the gastric juice of animals, and chlorides, or combinations of chlorine with simple bodies, are found in many other animal secretions.

There are several ways of preparing chlorine, but only two of any practical importance.

1.—By heating hydrochloric acid with binoxide

of manganese.

2.—By heating together a mixture of sulphuric acid, common salt, and binoxide of manganese.

In process 1st, two equivalents or 74 parts of hydrochloric acid, react on one equivalent or 44 parts of the binoxide, and yield one equivalent or 36 parts of chlorine, one equivalent or 9 parts of water, and one equivalent or 64 parts of proto-chloride of manganese. Symbolically, the decomposition is thus expressed—Mn O² and ? Cl. 41 give Mn Cl, Cl and 2 HO.

The second process, however, is cheapest, and most convenient; the theory is as follows:—Two equivalents or 80 parts of sulphuric acid, react on one equivalent or 44 parts of the binoxide, and on 60 parts or one equivalent of chloride of sodium. and yield one equivalent or 36 parts of chlorine, one equivalent or 76 parts of sulphate of the protoxide of manganese, and one equivalent or 72 parts of the sulphate of soda. In symbolical language, thus Mn O² and Na Cl treated with 2 S O3 produce SO3 Na O+SO3 Mu O and Cl is evolved.

In practice, when following the last process, it is usual to mix three parts of dried common salt with one part of the binoxide of manganese, and to add to this, placed in a retort, so much of sulphuric acid diluted with an equal bulk of water, as may be sufficient for producing a thin paste. The heat of a spirit or oil-argand lamp, is amply sufficient for developing the gas, which may be collected over water in a common pneumatic trough, or by displacement. The first portions should be collected and thrown away as they are impure, but

when breathed, it should never be allowed to escape within a building. Books recommend the collection of chlorine over warm water, because cold water absorbs it to a certain extent; however in practice, I invariably use the latter, thinking it better for many reasons. If warm water be used, the gas is made to expand, and if bottles be filled with it in this expanded state, and the stoppers inserted, the force of atmospheric pressure them is such that they are frequently incapable of being withdrawn; moreover a warm water bath diffuses through the atmosphere a sufficient quantity of the gas to seriously interfere with breathing. On the other hand, by collecting chlorine over cold water, a portion of the gas is lost it is true, yet the absorption soon attains its maximum, and the vessels become speedily filled with the substance considerably diminished in volume by the agency of cold.

Chlorine when thus prepared is a greenish yellow substance, whence its name, of an exceedingly suffocating odour, very irritating to the air passages when inspired. The specific gravity of this gas is 2470. It does not burn, but sup-ports the combustion of some bodies. The flame of a taper when immersed in a vessel containing this gas is not immediately extinguished, but burns for a second or two with a dull red light. giving of black carbonaceous funes. Many bodies, however, take fire spontaneously when immersed in chlorine; of this powdered antimony, and phosphorus are examples. If a paper saturated with oil of turpentine be immersed in this gas, it immediately takes fire, and dense clouds of charcoal are deposited. This phenomenon is dependent on the great affinity which chlorine possesses for hydrogen. Oil of turnentine consists of carbon and hydrogen united together, of these chlorine abstracts the latter, and leaves the former in an isolated state. The affinity of chlorine for hydrogen is very great; when mixed, these gases gradually unite even at common temperatures, and suddenly with explosion, if set on fire by a taper or the electric spark. It is in consequence of this great affinity for hydrogen, that chloring is enabled to decompose most organic substances.

Chlorine is occasionally employed in medical practice as a fumigating agent, disinfectant, and untiseptic. Also as an autidote in poisoning by hydrocyanic acid, sulphuretted hydrogen, and hydro-sulphate of ammonia, but in all these cases, chloride of lime is a far more agreeable agent, It has been employed moreover in certain pulmonary diseases, such as chronic bronchitis, with apparent benefit; nay, it has been even said to cure phthisis, but the assertion is not well supported. By far the most important uses of chloring are to be sought for in the arts, where it is chiefly employed as a bleaching agent. The old plan of bleaching linen consisted in exposing it to the combined agency of light, air, and moisture, for a considerable period, when the oxygen, under these circumstances, united with the colouring matter, and formed colourless compounds. It had been remarked that the peroxide of hydrogen, a compound hereafter to be spoken of, was a very powerful bleaching agent, and moreover that dew water bleached more effectually than water from any other source; then it was forthwith imagined that such water contained peroxide of hydrogen, to which its bleaching properties were attributable. In short, the process of ordinary bleaching was said to depend upon the formation of colourless oxides of colouring matter. The bleaching properties of chlorine were referred to the same cause; it was said that this gas could not bleach except water were present, under which circumstances the latter becoming decomposed, its hydrogen uniting with the chlorine to form hydro-chloric a id, and its oxygen yet in a nascent state, allying itself to the colouring matter, and producing a colourless oxide. This theory is exceedingly simple, and seems no less plausible, but according to the experiments of Dr. Kane, it is not correct. This chemist says, that chloring enters into the constitution of the new substance formed, sometimes replacing hydrogen, at other times simply combining with the colouring body, and in some, its reaction being so complex, that its immediate

at a temperature of 32 deg. F. forms a crystalline compound, which is decomposed by a temperature of about 45 deg. If a quantity of these erystals to scaled up in a strong glass tube, and heat be applied to one end whilst the other is couled, the chlorine during its liberation, exerts so much pressure on itself, that it becomes condensed into a fluid. 100 volumes of water at 60 deg. F. and 30 inch - box, abs who 2007 volumes of chloring, but it is necessary that the water should have been freed from all other cases by bailing and that it chould be agreed with the elibrine; otherwise the majorat of alcomption does not take place, and have may chlorine be collected over We exhibite the chloring in solution, possesses the to re, e-lour, odour, and bleaching properties of he gas. The combination of these two, however, is no very stable, for when exposed to the light chloride of xygen, (hydrochloric acid) is formed, and oxygon gas climinated. This change may be known to have occurred by the solution having List it colour, and acquired the property of red-deniar Edens. The oxygen thus liberated during the termation of hydrochloric acid under the circause ucce just mentioned, is in a condition particularly prone to unue with oder bodies; and hence chloring as prices the property of a very powerfully exidicing substance. In the greater number of instances, however, according to some philosophers, the oxidising influence of chlorine depend upon other conses. Thus it convert protoxice into peroxide of iron, by combining with | one portion of the mend, and having all the oxygen to make with the remainder, but I connot help attributing the chief exidising property of. this body to its pover of decomposing water, as inst indicated.

Chib rine units with oxygen in four proportiondernain, a very perfect series of complaints. offinities are very extensive indeed, being expublic of oniting with agarty, all the simple I slies, and formine compounds termed chloriby or ellowets. With meals it yields compounds, analogous in many respects to the some bodie with oxygen; but wide non-metalic shaple bodies, the analogy is by ne area occupied. For the most part, the converness of addorine with simple bodies are very while in the respect differing widely from exides; chloride of silver, and chloride of mercury, howver, it well known exceptions. In some cases chloring unites with in tallic exides, but the realts of such combinations are not very stable. Som times it unites with protoxides without decompositions at other times it displaces a portion of the overest of a perceide, which becomes replaced by itself. Thus with lime it forms Ca O. To with proto side of lead, PbO, Cl; with Baryta, Ba O. (I whice probably correspond to Ph Or and Ba O. In addition to the properties of chlorine, which I have mentioned casually, the following parst libages of upon your archories.

100 callie inche wigh nearly 77 grains. Its positic gravity is 2.5 memby. Its equivalent cight i 36 ca duting fractions, and its equivalent seight i Begenning fractions, and its equiv. Find take is equal to the tool hydrogen. By a pressure of 4 conceptance, i. e. to the orathe quare inch, at a tend of ture of 60 deg. F. it is condensed into a yellow highd, beginn a geogra of 1.33. The colour colour, and bleaching quelifies of chloring are distinctive to concretely of the gas, when meanished or merely united with water. Moreover, these in the gas are constant of the gas, when ever, either in the ever ray either conditions, or leng r it do not tory percoder in other companies and higher the companies is chelled white companies in chelle other do the metal, which blanks can exposure to the color rays, or conor exposure to the solar ray, or even unfine I daylight, which is totally in-olable in boilth, ritide real, and soluble it liquor ammonise. The solve steristics are possible to the chlorine of no and buses are the distinctive to to for that the types

To the Physicians in Part - The number even in play is an now neither is of the practice of Pear, we could to thirty-one. Within the last for year, so of two or three permissions have been granted, in spice of the numeron domainds additionally. dre and to the Maniter of Public Instruction.

Chlorine, then brought into contact with water COURSE OF LECTURES ON THE DIAG-NOSIS, PATHOLOGY AND TREATMENT OF DISEASES OF THE NERVOUS SYS-TEM,

> By MARSHALL HALL, M.D., LASS, L. Sow of the Reyal College of Planetar, Loron, Sc. St.

> > IFCTURE V., Indivered December 12, 1842

I have not purposed to read anything in these bectures, but there is an essay by Sir Henry Halford, which give an interesting description of a case that relates to the present, subject, and you mu t allow me to read helf a page. It is what I have observed repeatedly myself. This patient had all the symptoms previously mentioned, and I must remark that this was the case of the late Dr. Warren. Sir Henry Halford says, "A young gentleman of family, about 25 years ago, took cold whilst under the influence of mercury; the fever increased daily, until it was accompanied at last by so much fever and delirium, as made it necessary to use not only the most powerful remedies, but also personal restraint. At length, after three days of incessant exertion, during which he never slept for an instant, he ceased to rave, and was calm and collected. His perception of external objects was correct, and they no longer distressed him, and he asked pressingly if it were possible that he could live:

On being answered tenderly, but not in a way calculated to deceive, that it was probable he might not, he dietated most affectionate communications to his friend abroad, recollected some claims upon his purse; 's a his house in order,' and died the following night." I should not have quoted this case had 1 not seen similar cases, and in fact many cases are calculated to deceive, whereas the fact is that the patient, instead of being better, is worse. He goes on to say, "The reason why so unfavourable on opinion was entertained of his state was, that the apparent amendment was not preceded by sleep, and was not accompanied by a slower pulse." Now the fact of a patient in this state being worse is an important thing; for, when a patient seems better and is no better. you must come to the conclusion that the state of things, called the sinking state, what John Hunter called a state of "dissolution," is not a rate of amendment.

Before I conclude the subject of the symptoms, want to detail to you an interesting fact, which I believe to be a new one, corroborated by an interesting case lately published by a gentleman whom I have the pleasure and honour of knowing, namely the convulsions that arise from inflamination of the membranes of the brain. My friend, Mr. Henry Smith performed this experiment a short time ago; he took a dog and removed the upper part of the cranium, and bacerated the brain in every direction. There was no convulsive afficetion. At length he removed the entire substance of the brain, leaving nothing visible but the upper pers of the medulla oblongata, and the membranes at the bottom of the brain. Now this is the important fact-he pinched the different membranes at the base of the brain, and to my astonishment there was every system of spasmodic action in the face, the neck, and the upper parts of the animal, The fact is that lesion of the membranes at the base of the brain produces spasmodic action. In fact, by inflammation of the arachnoid membrane you may have spasmodic action, and any lesion of the dura mater, like this membrane, will produce (pasmodic action, and in this manner you account for those spasmodic affections not previously accounted for until this was known fact is important in a physiological point of view.

A near relative of mine had a favourite hor ehe was fond of riding. On opening a gate, and bearing terward to do so, the animal did what many hor as are apt to do; it to sed up its head violently, and this action gave my friend a blow upon the anterior part of the bull. He was never aree from he al neln from that hour. He has and affected with delusive ideas; he was frequently buying every plot of ground that he saw, and at |

own concerns, and died in a lunatic asylum. That case is one of atrophy. Atrophy of the brain is the result of disease. There is a depression upon the brain. The modus operandi of this is unlike inflammation. It is produced by effusion into the membranes; this effusion, where there was before a cavity, produces a depression upon the brain, which is indicated by the symptoms I have before detailed to you, in noticing the case of The symptoms are pain and delusive ideas, and it becomes of the utmost importance to be aware of these. There was paralysis of speech, the patient lost the power of articulation. He lost the mobile power of the opposite side of the body, a that when he walked he used one arm and one leg before the other. Now, emphatically, I say, the point which it is important to bring before your attention in regard to such cases is this, to distinguish between insanity and diseases of the brain producing delusive ideas. I need not tell you that this case was not a case of insanity, but was a case of partial arachnitis, an injury of the membranes of the brain. It was a disease of the brain producing delusive ideas. It is very important to distinguish between the cases, for in this case, however it might bear the appearance of insanity, it was but a disease of the substance of the brain, producing incoherent or delusive ideas. Another very important thing is, that you have in many persons delutions which are similar, and in one you may have a slight degree of inarticulateness in the speech, and a slight degree of paralysis. That is the case I have alluded tothe patient was not insane; there was disease of the brain producing insane ideas but not insanity. The prognosis in these cases is most important from the reasons I have mentioned to you. Thave a case under my care just now of a very interesting character. The gentleman I am alluding to I have attended for three years. He is affected with paraplegia. The paraplegia has been very much removed, and he recovered from it sooner than is usual in such cases. From losses which he sustained he was violently affected in his mind, and became deranged; I must call it insanity, He was taken to an asylum: I was called in to that asylum, and I gave it as my opinion that that patient had paralysis with his insanity, and could never recover. He is now capable of conducting his own affairs. That very patient dined with me the other day. I had invited him with a friend of mine in order to see whether there was any malady remaining, but his conversation was as intelligent and as full of information as that of any person at the table. Was it deception? The deception was as to there being real insanity with the paraplegia, and that kind of paralysis that comes on is not a case of insanity. The prognosis here is invariably total as to the recovery of the disease and to the duration of life.

I cannot conclude this lecture without saying a few words more about arachnitis. I am not going over again what I said about the importance of blood-letting as a diagnostic, as I suppose the subject is sufficiently impressed upon your minds. Now with regard to the second stage of the disease. I must revert in the first place to what I said before-place the patient upright in the first place, so as to enable you to judge of the nature of the disease, and the strength of the patient. The next thing to be done as soon as possible is to put the patient under the influence of mercury, because this will probably have a tendency to the subjugagation of the disease. Now I have only one statement to make in order to guide you. If the symptoms do not subside, you inust repeat blood-letting. If the quantity taken is very slight, repeat the dose, but then it must be very small, for you may depend on it the case will not bear a repetition of the blood-letting. If the symptoms are not entirely removed, you may hope day after day to see a mitigation of them, but it the symptoms continue, and you have taken as much blood from the arm as you can, capping may be adopted as being more valuable than levelse, and this may be applied daily, and you may watch its effect, and as soon a possible put the patient under the infinence of mercury, the sooner you do so the better. Dr. Abernethy recomtaends in cases of here the hecame inexpuble of taking care of his this kind, eroton oil as the be t purgative. These,

then, are the remedies. Then there are some other points. In the first instance place the patient with his head and shoulders raised. The best mode is to place an inclined plane under the bed or mattrass, so as to raise the whole of the body. In such cases there is a little disposition to the patient slipping off the bed, and this is obviated by raising the pillow. The next important thing is very cold applications to the head. Another important thing is to keep the feet exceedingly warm, reversing the order of things, keeping the head as cool as possible, and the feet as warmas possible.

PRACTICAL OBSERVATIONS ON THE NA-TURE, PECULIARITIES, AND TREAT-MENT, OF SOME OF THE MOST PRE-WALENT DISEASES, &c. CONNECTED WITH THE POPULATION OF NORTH CHESHIRE, AND SOUTH LANCASHIRE, EMPLOYED IN COTTON FACTORIES.

By Charles Clay Member of the Royd College of Physicians, London, College of Surgeons, Education of and Lecturer on Medical Jurispindence and Webial Police, Manchester.

(Combined from page 261.)
It is impossible to view the adult operatives of

factory districts, without being convinced of the fact of constitutional depreciation. Those who escape the fatality of the many diseases to which they are exposed in early life, live onward, only to prove more decidedly the inroad made into their constitutions; when, if differently employed, they might have been of the most healthy character. Many years ago, some of the best recruits in the service, were raised in Lancashire, and Cheshire; but now, a young man brought up in a factory, passing a physical examination as a recruit, is very rare indeed. It has been said, "they have too much good sense to culist;" but the truth is, it is useless to enlist, and be rejected. I have myself rejected many, and in fact, I seldom saw a good recruit come out of the factories; miners on the contrary, and some other classes of workmen were stout athletic young men, who could bear fatigue, and were well calculated for the service. No one would wonder at this difference, when he examines the physical developments of the different artisans.—One, who has passed nearly all his time in a factory, looks at least ten years older than he is; and it is difficult to find one who may be said to enjoy robust health,---Much depends on the departments in which individuals are employed, for the development of various forms of disease.-For instance, asthma, in various forms, and obstinate constipation attack those employed in the eardroom, the consequence of breathing an atmosphere constantly loaded with fine particles of the cotton dust, &c.; whilst spinners, from their extraordinary muscular exertions, are subject to hæmatemesis, hamoptysis, phthisis, &c., as well as the more active inflammatory diseases, -- pneumonia, peripueumonia, hepatitis, and enteritis. Their long continued standing position brings on vari-cose venous affections of the legs; ulcers of a very obstinate character, and hæmorrhoids; inguinal and serotal hernias are also very common. From violent exertions long continued, excessive perspiration is exuded, which, if carried too far ends in debility, constipation, anorexia, atrophy, and phthisis. Sometimes, the perspiration is suddenly checked by frequent exposure to atmospheric changes, (very different to the high temperature in which they generally work); hence arise frequent attacks of fever, often degenerating into typhus, almost certain to become typhoid if bled, and very often fatal if depletion is resorted to. Where they escape attacks of general fever, rheumatism, acute and chronic, tie doloureux, and obstinate diarrheas are very common, and constipation equally so, which is greatly increased by the daily use of inferior cheese, which adds no little to the list of dyspeptic patients, which is certainly very nu-The operatives, generally speaking, are not cleanly, and their coarse inferior diet is made much worse, by bad management on the one hand, and improvidence on the other, which will in some manner account for the prevalence of eruptive diseases, chiefly the itch, and scorbutic affections. One seldom sees gout, apoplexy or insanity in this class.

CHAPTER AL

The Declining Period of Life in Both Seves.

It we pursue this subject to the declining period of life in both sexes, we shall only be the more confirmed in our views already stated. In females, the period of menstrual cessation is an extremely critical one, and not unfrequently accompanied with fatal results, and very many are rendered truly miserable by prolapsus uteri, ani, &c. I am not aware that cessation of menstruation occurs at an earlier period than ordinary amongst this class, but it is common for the females to marry very young, and they generally have children quickly, so that at forty or fifty they appear old women. When individuals are past their prime, and incapable of a certain amount of work, they seldom get employed; indeed, it is rare to see a person at fifty employed in a mill at all.

What must be considered the declining period of life in this class is little more than the prime of an agriculturist's life, the men appear bowed down with age, when not old, and their physical faculties almost annihilated, real old age is seldom attained; and should it be, it is attended with so many diseases, that life must be a burden to the individuals, if not to those on whom they depend for their seanty comforts-few have the courage and industry to save a little money in their youth, to enable them to purchase necessaries for the decline of life. This sad catalogue of miseries is not overrated. The whole lists of maladies are an every day occurrence in those districts, and convince a reflective and observing person, that this is the locality "where wealth accumulates, and men decay.

CURABILITY OF CONSUMPTION.

(Continued from page 281.)

(T) the Editor of the 'Medical Times.')

Sir. - Before commencing the superstructure of treatment, permit me to remove a little more of the rubbish that lies in my way, in the shape of misconceptions or misrepresentations on certain leading points of this question, which have gained currency among many members of the profession. who are either too busy or too negligent to do more than give it a mere cursory attention. Having met with some of these errors, in an article lately manufactured in the intellectual laboratory of Sir George Lefevre, I shall notice, in transitu, a few of the remarks made by that physician, who has so long been a sojourner in a foreign land.

He states, inter alia, "The public have of late acquired some new and very consolatory ideas as to the nature of consumption. When attacked by the disease they no longer despair as formerly they have hopes of permanent cure. If this fail they know that their lives may be prolonged to an indefinite period, for they are now aware that the flame may be kept alive by half a lung, or two lobes out of three, or three out of five, and then they may eatch a severe cold which will care them radically. (See Dr. Ramadge on consumption.") I confess my surprize that this gentleman should have so far mistaken Dr. Ramadge's statements as to misrepresent them in this egregious manner. He no where asserts that the vital flame may be supported by half a lung, &c., nor that after the almost entire loss of the lungs, from obliteration of the air-cells or otherwise, a severe cold will cure the patient radically. This loose, vague, and erroneous mode of commenting on the statements of an author, is, to say the least of it, unfavourable to the interests of science. Further on it is observed in the same paper, that "an inflammation supervening in the form of catarrh may, by its adhesive processes, form a barrier between the sound and the diseased parts of the lungs, preventing thus the contamination of the former, and we have to thank Lacannee for the discovery.' feel obliged if he will indicate in what part of Laennee's work the doctrine is inculcated that catarrh is either partially or perfectly capable of arresting the progress of consumption, which I suspect is the intended meaning of the above obscure and unpathological sentence. On the The ignorance of the profession, and not that of

contrary he carefully avoids connectating so bold a theory, and distinctly deprecates in his chapter on catarrh the inference that he suppose it a pre-servative against tuberculous develops at. The discovery is due to Dr. Ramadge, and if there be any merit in it -

Palmam que meruit, fero: However, whether it proceeds from Lammee or any other, is to him a matter of profound indinerence. He regards with shrewd suspicion all attempts at cure when the disease is established, and would attract notice more exclusively to the preventive part of the treatment.

When the town was besieged, the sapient currier declared that his fellow-townsmen might do as they pleased, but in his opinion there was nothing like leather. This physician does not venture to dispute either Lacunce's or Dr. Ramadge's theory. They may be right or wrong, but in his opinion there is nothing like thermal comfort as they enjoy it in Russia. His glowing description of the arrangements made in that frigid climate for the production of this most desirable effect will, I sincerely hope, have the good effect of melting down the objections many consumptive patients entertain against cold elimates. they hybernated in Russia, if I might so speak, all the year round, instead of migrating to warm climates, the chances of recovery would be multiplied: not by the elevated temperature of the Russian apartments, but by the catarrh which either in a mild, dry, and latent, or in a manifest form, could scarcely fail to supervene on the daily transition from this warm atmosphere to that out of doors, and it is to the frequency of this catarrhal state I should, in a great measure, be inclined to refer the comparative infrequency of consumption in Russia and other countries in the far north. The history of his own health, given by this writer, renders the supposition highly probable that anteriorly to the catarrhal affection under which he has laboured for so many years, tuberculous de-posit had taken place in his lungs, and phthisical symptoms more or less manifested themselves. It is also not unlikely that his bronchial disorder first attacked him in the winter season, and that but for this coincidence the Russian embassy would have never had the benefit of his services, nor the public his advice to imitate the Russians in their thermal defence against hyperborean blasts. He concludes by confessing that there are a few drawbacks on the advantages of heated apartments, such as languor, lassitude, uneasy sensations of the head, impaired appetite, and other disagreeables, all which are in his estimation merely secondary, and, with a naivete for which I was quite unprepared in a courtier, candidly acknowledges that he has a great deal of prejudice to encounter in propagating his views among the English, who are "a cleanly people," pertinaciously adherent to the old-fashioned practice of admitting fresh air into their rooms, and so sensitive in their olfactory organs as to abhor the effluvia of rancid bear's grease, and all other offensive, sickly, musty, varieties of atmospheric contact.

Jeffrey's respirator, and similar contrivances or expedients, should not be resorted to by consumptive persons. The infirmary for diseases of the lungs was originally instituted chiefly for the purpose of providing wards artificially heated for phthisical patients. Dr. Ramadge informed me that he has never found them of any utility in such cases, but often the contrary. The excitement in the first instance may give a fillip to the constitution and lead to some indications of amendment, but these are always fugacions, and the symptoms soon resume the previous or a worse character. he admits such patients, which is very rarely, the object is either unconnected with the temperature of the wards, or to prove to some of the medical gentlemen attending the infirmary that his views on this point are borne out by facts. If this be true, what shall we say of nascent institutions putting forth prospectuses, and collecting large subscriptions for extending similar accommodation to patients at their own homes, or in apartments hired for the purpose at different parts of the metropolis. The intention is benevolent, but the money so expended will defeat its own object. the public, is to be charged with the misappropria-

Another instance of the loose unsatisfactory way in which the views of Dr. Ramadge have been handled, is furnished by a foreign physician, Dr. Ulric Palmedo, of Berlin, in his treatise on the cure of consumption. He seems, however, to have read and considered those views more carefully than the first-named physician. His words are, "The examinations and observations of cases of cures in this terrible disease, which an English author, (Dr. Ramadge.) had related as having fallen under his inspection, in living persons as well as in bodies after death, were striking, and his explanation of the process resorted to by nature to heal pulmonary tubercles, was so evidently in barmony with her laws, that it left a powerful impression on my mind." He then procccds to state, that he had made trial of the mode of cure recommended by Dr. Ramadge, which he says failed in his hands; at the same time candidly expressing his fears that the cases may have been of such a nature that either the disease had already caused too powerful a destruction of the lungs, or from some other reasons they were improper for the treatment, or the method recommended had not been applied and followed up with the necessary perseverance and punctuality. I shall take an opportunity of referring to these remarks in a future number, and explaining the causes of Dr. Palmedo's want of success.

To remove every erroneous impression as to my views on catarrhal antagonism. I beg to repeat that when very severe, catarrh hastens the maturation and liquefaction of tubercles previously formed, and semetimes when these are numerous and the softerings simultaneous, the fatal democración is precipitated. It is not recommended that patients should expose themselves to currents of air, or sleep in damp rooms, or beds. &c. I would protect them against bronchial affections with all due care, but at the same time avail myself of their presence when moderate, and give them credit for what good they really do effect. But I would say both of this and the other morbid agencies employed by nature,

" Non tali ancilia, nec defensoribus istis.

Tempus cact."

We have other means at command, more simple, afe, and efficacious. I shall discuss the TREAT-NUNT under two heads:—

1st.—The Mechanical or Surgical and Primary, 2nd.—The Medicinal or Constitutional and Subsidiary,

One great and leading fact obtraded on our attention by the symptomatology and pathology of phthisis is, that nature very frequently attempts and succeeds in effecting a partial and temporary. or perfect and permanent cure by some means. The analysis given in the former articles brings us to the discovery of the agencies employed, and a little further consideration conducts us inevitably to the conclusion, that they all act in one way, viz., by expansion of the lungs. But we find that in producing this, nature sometimes oversteps the boundaries of prudence, and that she does evil in her efforts at doing good. She frequently makes the expirations too prolonged; fails in restoring the nice natural balance between inspiration and expiration. The evil is either equivalent to the good done, or it is less; greater in would be hard to suppose. The business of art, therefore, is to diminish or prevent the evil effects of her operations by judicious control or assistance, and, if possible, accomplish her aims by an agency similar to her own, and not fiable to its objections.

The expansion of the lungs may be effected to a certain extent by exercise, and there are certain peties of exercise which expand them more than others. This prophylactic operates both generally and locally; it invigorates the body and mind, thus obviating debility, which is the great cause of tubercelous deposition, and by stimulating the lungs to deeper and more frequent inspirations, increases their y stone and gives enlargement to the clurk.

Survivinges, kind journeys, riding, running, swinglies, &c., and whatever sports or coupley-mains exercise is pulmenary tissue prove benefits of trenting phthists. No medicated vapours are required. The simple atmosphericain is the great

horse exercise, the ascent and descent of the trunk on the saddle is followed by a greater diaphragmatic descent, which gives the lungs more space for expansion, particularly the lower lobes, on whose integrity so much depends.

The increased exercise of the lungs themselves is advantageous on the same principle as in other tissues. The muscles of voluntary motion from their frequent action are very rarely indeed the seats of tubercles. The lungs, as by a general rule, may be stated to be first affected in the parts where least motion is allowed, viz., the upper lobes. The lower, from their proximity to the yielding and descending diaphragm, and the greater arches of the ribs, are less interfered with in their motions, and therefore the less liable to become diseased. nuless where there exists some adhesion to restrict their expansibility. In sea voyages or new localities, the action of the lungs is deeper and fuller from the stimulus of the unaccustomed atmosphere. The increased pulmonary action, and consequent improved sanguification, may be regarded as the causes of the amelioration we observe effected by changes of locality in convalescence. The consideration however of this by no means unimportant section of the subject, belongs more properly to the second head of treatmentthe subsidiary. As the employment of general exercise is sometimes forbidden by circumstances. or is not practicable to any great extent, nor are its effects sufficiently constant or dynamic when the disease has declared itself; we must then come to more decided and certain measures. We must be provided with the means of exercising the pulmonary tissue, and expanding the air-cells surely, steadily, and directly. Now in order to accomplish this, let us endeavour, after the manner of nature, to prolong the expication. This can be done by a very simple contrivance. Let a tube be constructed, so that when breathed through, backwards and forwards, the air will be inspired more easily than it can be expired. The impediment officied to the expiration need not be considerable. and can be graduated. A common quill larger at one end than the other, will answer the purpose tolerably well. But it is better to employ a tube, nicely constructed on the principle laid down. For a particular description of the different sorts of tubes now or hitherto used for this purpose, 1 must refer to a subsequent article, to which I shall add an engraving descriptive of each, and directions for use.

The effects of prolonged expiration are the same, whether produced by natural or mechanical impediments. I shall briefly recapitulate them, viz., imprisonment of the air in the lungs; distension of all the permeable air-cells; increase of the pulmonary volume: enlargement of the cavity of the thorax, from the pushing out of its walls in every direction by the expanded lungs; approximation of the surfaces of cavities, from pressure on all sides by the pulmonary tissue external to them: union of these surfaces, if early, by a soft membrane, if late by a semi-cartilaginous intervention, &c.: arrest of the tendency to fresh tuberculous deposition from exercise and full expansion of the pulmonary tissue, and a state of dormancy or quiescence more or less complete of the tubercles already formed and uncliminated, they being surrounded by black secretion, isolating and often rendering them innocuous. Such are the effects of prolonged expiration in favourable cases. The great comparative advantage of the tube over nature lies in the following circumstances. It is capable of being so made that we have neither more nor less prolongation of expiration than is exactly necessary; it can be taken up and laid aside at pleasure, so that the lungs when fatigued. with this anormal exercise may have repose; it can be persevered in for any desired length of time, and abandoned when no longer necessary; or, when contra-indicated by the supervention of some accidental malady or symptoms; and finally, from its proper use no evil consequences will be found to result. It is in short, an instrument completely at our command, simple in its mode of operation, certain and safe in its effects.

medicinal agency, and elasticity its essential ingredient. We have no occasion for the fames of far or iodine, of chlorine, hemlock, or turpentine. With the value of these medicated vapours 1 have nothing to do. The principle of the treatment I advocate is essentially different, as has already been seen.

Simple as this instrument is, its power is greater than can be appreciated by those who have not used it. Let it not be despised on account of its apparent simplicity being so incommensurate with

its pretensions.

When Nauman, the favourite minister of the Syrian monarch, applied to the wonder-working prophet of Israel for the cure of his leprosy, he was ordered to bathe in the waters of Jordan, but indignantly exclaimed, "Are not Abana and Pharpar, rivers of Danaseus, better than Jordan's contemptible stream?" His servants judiciously reminded him that it was but a little thing the prophet had commanded. He bathed in the prescribed waters, and his leprosy was removed.

Thus would I counsel those who at first may treat this simple instrumentality with the haughty disdain that sits so lordly on the brow of more complicated science, and imposing agencies. Is it not a little thing? The difficulty in making the experiment is little; try it, and though I have no pretensions to the gift of prophecy, or the working of miracles, I promise you success, exceeding, it such may be, the sanguine expectations I have endeavoured to create.

There are, however, certain rules which should regulate its use, and stages, symptoms and complications of consumption in which it is either inefficient, inadmissible, or for intervals longer or shorter to be suspended. These are essentially necessary to be well understood, and shall be explained in a future communication.

Discipulus.

(10 be Continued,

помсторатиу.

This claborately learned species of empiricism has been recently much the subject of general attention, in consequence of the death of the Countess of Denbigh shortly after her confinement, and while under the attendance of a homeopathic physician. From a correspondent (M.D.) who does not give his name, a contemporary furnishes the following statement of circumstances:—

"Though in her confinement, eighteen months ago, she nearly lost her life by homocopathic treatment, her belief in it, strange to say, continued unshaken; and on again becoming pregnant, recourse was had, as before, to the disciples of the infinitesimal system. This lady was of a very plethoric habit, and, according to the accepted practice in similar cases, should have been carefully watched by her medical attendant during the whole period of gestation, and such means adopted as were likely to prevent any undue determination to the licad during or preceding labour. Thus might have been prevented the probability of apoplexy or convulsions. But such treatment is against the principles of Halmemann and his disciples; and therefore could not have been followed by the homeopathic attendants of this unhappy lady. As the period of her expected confine ment drew near, she was seized with convulsions; and, as a matter of course, their fractional grains and their globules had no sort of power to check them. Some time was lost in these fruitless attempts-and we all know the great value of even an hour in such cases. By accident, a medical man of some eminence was in the house, and was requested to see the case; he pronounced the lady to be suffering under puerperal convulsions, requiring from those in attendance the most active and energetic measures, and the assistance also of a skilful acconcheur, to forward the delivery of the patient,

which seemed to him urgent and necessary No, the homoeopathic doctors spoke confidently, and the poor husband was not shaken in his faith of their skill and power. The infinitesimal remedies were alone used: the convulsions, as a matter of certainty, ran their course un-checked; and apoplectic coma followed!"

The correspondent proceeds to say, that in this state of unconsciousness the patient gave birth to a child and sank; and, he adds:-

" I am sure you will say, with me, that any tyro, who had attended one course only of midwifery lectures, would have known every symptom in this case, and been able to determine on the necessary, and (in all probability) successful treatment. A story was circulated immediately after the event, that a fright occasioned the convulsions: this caused a fear of the coroner. The rumour was then changed, and a post-mortem examination was made, Report Softening of the brain; a large tumour; and more water than usual in the ventricles.

"Your readers may wish to know who examined the head? Dr. Halmemann's disciples!"

A reply has been sent to the above statement by one who similarly conecals his name, and who declares the account to be a mere fabrication. Mr. Barnes, the acconcheur, and Mr. Fincham are named as attending the autopsy, neither of whom, it is affirmed, is an homeopathist (tant mieux pour eux). The first attended the whole accouchement. It is theu bluntly denied, that at her former confinement her ladyship was attended by an homeopathist—that she was "of a plethoric habit"—that watching a plethoric habit during gestation is against the principle of Hahnemann-that the medicines did not check the convulsions-that the homeopathists spoke at all confidently of recovery-and that any come at all supervened. It is, moreover, asserted, that "the medical man of some eminence" by chance present, was Mr. Barnes. The cause of death is stated to be beyond art; and the following are given as the appearances observed on the post-mortem examination :-

' Very little blood in the head. Dura water rather congested, but without inflammation, and more adherent to the bone than usual. Great thickness and opacity at the back part of the longitudinal sinus, at its junction with the lateral sinuses. A small tumour, half an inch in diameter, and about a quarter of an inch-

" Base of the brain congested, particularly about the medulla oblongata, with a small quantity of fluid; the whole of the cerebellum softer than natural, with here and there a portion soft like paste. This state of the brain was the result of disease of considerable standing, and could not be remedied by any particular treatment.

" (Signed)

G. FINCHAM. HARRIS DUNSTORD, M.D. A. B. BARNES.

" December 16, 1942."

Now, the conclusion we draw from these premises are first, that "the medical man of some eminence," Mr Barnes, has been in very bad company, and should explain to his brethren on what principles he acted in forming so suspicious an association; and secondly, that M. D. has disgraced his cloth by an accusation against empiries, made in utter ignorance of the circumstances, and which, by its talsehood, throws discredit on his brethren; or else, that the homeopathic physician replying to him, is a pretty bold specimen of the class of liars. If better data be furnished us for less conditional conclusions, our readers shall have the benefit of them.

TREATME T OF SPRAINS BY STARCHED BANDAGES

From a Corne pondent ,

SPRAIRS, as is well known, are generally produced by great force applied to a joint, or by a smaller degree of force awkwardly applied when the museles of the limb are unprepared for it; the result of which is, that the ligaments, tendons, and their sheaths, which surround the joint, are violently stretched, and in some cases After a short time, sometimes almost immediately, great tumefaction and stiffness of the affected joint takes place, from effusion of blood and serous fluid. Such cases are of very common occurrence, and are familiar to every practitioner. They are universally classed among the most tedious and troublesome cases which fall under the care of the surgeon. The treatment adopted by different practitioners is extremely various; some apply lecches, others cold evaporating lotions, others warm fomentations, whilst some trust to stimulating frietions: and, perhaps, it is a general fault among medical men to resort too much to one method of cure, to the exclusion of other means. The treatment of such cases, which we have been in the habit of following for some time past has certainly been attended with more decided success than any one which had formerly come under our natice. Not only is the patient saved much suffering, but is enabled sooner to attend to his duties, and to take that exercise in the open air, which is so congenial to health and convalescence. By means of the following treatment, our patients may (even after having suffered a very severe sprain) be enabled to go about their usual avocations in six or eight days. Upon being called to a case where a sprain has occurred, the extremity must be elevated and kept at rest. Cold evaporating lotions, or warm fomentations, are to be applied according as the one or the other is more agreeable to the patient's feelings, and also according as we see the case immediately after the injury, or some time after its occurrence; in the latter ease, warm fomentations are always most beneficial, and most relished by the pa tient. It may be necessary, also, to use local blood-letting, when symptoms of inflammatory action make their appearance: this, however, we believe, will seldom if ever be required, if the accident is seen at an early period. After the swelling around the joint and in the course of the tendons has nearly subsided, under the use of such, or similar applications, the starched bandages, first recommended by M. Larrey, and afterwards by Dr. Lentin, of Brussels, in fractures of the extremities, are to be applied. In the employment of these bandages, it is of the greatest consequence not to apply them so long as the limb continues very paintul or much swollen; at the same time, it does not do to wait until the pain has altogether subsided, or the swelling entirely fallen, for this is seldom accomplished until a considerable time has elapsed, and until a bandage is applied In applying the bandage, we always follow the plan of Dr. Lentin, of Brussels. Two or three pieces of broad stout cloth, well covered with starch, are to be follied and applied on each side of the limb, across the affected joint. One or two rollers, also well starched, are then applied over these, not very tight, but still of sufficient tightness to give gentle compression to the whole of that portion of the lumb. These dry readily in twenty-four or thirty-six hours, on exposure to the air. It has been recommended to facilitate the drying of the starch, by passing a heated smoothing-iron over the bandages, but we have found that this has a

tendency to render the limb more paraful, and

to increase the inflammatory action of the parts. The size and length of the bandages are always to be proportioned to the joint over which they are applied. Sprains most commonly occur in the wrist and ankie-join's, and then it is advisable to use bandages which will reach respectively from the middle of the fore-arm to the palm of the hand, and from the middle of the log to the digito-tarsel articulation. The advantages resulting from this plan of treatment are obvious; it exerts a comfortable and most beneficial degree of pressure upon the injured parts, while the moisture of the starched bandages acts as a temperary fomentation, and when dry, the stiffness which they acquire, and the continued and regular pressure which they exert upon every point to which they are applied, completely prevent every kind of motion of the injured joint, even although the patient may be using the rest of his body very actively. may be well to mention, however, that it is sometimes necessary to apply a couple of strong pasteboard splints on each side of the injured joint until the bandages dry. Out of 100 patients lately treated on this principle, 92 got well in six days-at least, when we say well, we should have said able to go about without any assistance; 6 in 12 days, and the remaining 2 in 30 days-the two last being very severe cases, and being much bruised besides AND COMMENTS OF THE PARTY OF TH

SPINA BIFIDA.

To the Editor of the 'Marrical Times."

SIR,-If the correspondent of the Medical Times who made inquiries respecting cases of spina bifida, under the signature of R. A., had looked, as indeed he ought to have done, into the various medical journals of this country before he asked his question, or supposed his case of that disease to be either eurious or singular, he would have found more than one ease of it recorded in those repositories of medical facts which, it is to be regretted, are so little consulted by the young practitioners of the present day, who frequently bring forward as new, observations and operations that have been made or performed over and over again before.

On the present occasion, R. A. will be satisfield, perhaps, with a reference to a really extraordinary case of spina bifila, related, as then living, by E. Jukes, Esq., surgeon, in the 47th vol. of the "Landon Medical and Physical Journal," page 106, accompanied by a drawing of the patient, (an adult young woman) with the tumour in situ, a cast of which is in the museum of St. Thomas' Hospital.

The admeasurements of that tumour being made the basis of calculation during the life of the patient, by the Editor of the Journal, Dr. Granville, it was found that its fluid contents amounted to one gallon, three pints, and fivo

The editor has likewise added a note in which he allades to five other cases of the disease occurring in his practice, one of which had been earefully dissected by him in the presence of Dr. M'Leod and Mr. Hutchison of the Westminster General Dispensary, where the preparation was deposited. In a second note, the same editor refers to an interesting merioir on spina bifila, with some very remarkable cases by a Russian physician, contained in a volume of Memoirs of the Imperial Academy of

Sciences of St. Petersburg, published in 1821.
Air. Jukes' patient died a few years after the date of that gentleman's paper, when a preparation of the disease, with a portion of the pelvic bones, was made by Dr. Granville, which is now in the possession of Mr. North, surgeon, lecturer on midwifery.

It would puzzle, by the by, both Dr. Mar-

shall Hall, and his competitor, Dr. Carpenter, to account for the integrity of the phenomena, organic as well as functional, in Mr. Jukes' patient, notwithstanding so serious a deliciency of that nervous development which regulates the growth and functions of the abdominal extremities in man.

Madicus.

Lember, 2, 6, 4 o, 600, 351.

TO CORRESPONDENTS.

We are able to corress a confident hope of giving our readers a complete account, from the very best quarter, of the late Mr. Drummond's case in its medical and singleal aspects. We expect to do this immediately after the trial of the assassin; Inface that it would be perhaps not perfectly decorous.

Philos is sincerely thanked. He is prayed to re-reember fest, that a class work differs from one made for general circulation (as is well shown by the high pives usually charged for a merely scientific journal or book) secondly, that "new homous sweep clean." The same ortist muar the praised and condemned woodcuts, though certainly mit with equal skill.

S. R .- The Berlin University is now in high itpute from the distinction both of its saighed and medieal profess is. For pharmacy, Giessen is now usually preferred, from being the scene of Liebez's labours.

A Friend. -Gentlemen with degrees from Percign Universities are not, therefore, exempted from serving on juries. Tellows or licentiates of the College of Physicians, Surgions of one of the three national colleges and apothocaries have that privilege in England.
Our Correspondent will find his other questions answered in previous numbers.

M. R. C. S .- The society of Apotterwise give medical journals no facilities for publishing the names of the new members. The virrumstance is expressive of the general wisdom and liberality of their management.

Medico-Chirurgus has ben, as be will see, anticipated in his orggestion.

Bright's Farina .- This article has been submitted for our judgment, and it gives us pleasure to speak of it as an elegant and delicate species of food, free, we think, from any tendency to produce acidity, and as far as our ounce perione goes, casy of digestion. This notice will make the invalues who profit by it our debtors; we wish, indeed, our editorial judgment were always invoked on subjects offering so pleasing a treat in the ordeal.

M. D. sends us an authenticated case of poisoning hy Marison's pills. The patient (a lady) took by orders 6 pills at night, and 7 in the morning. " The consequence was hypercathaisus, with irritability of the stomach, and great debility of the constitution. diarrhau followed, with great echaustion of strength. and by means of stimulants and astringents she was hept alive until the crit effects of these pills was carried eff. On correspondent very properly expresses a hope that such cases should lead persons in authority to pay attention to the proctoal (vi) of quachery.

D. N. The passession of a diploma from any College is no conclusive proof that the possessor's scientific till is sufficient. In any action, therefore, on incompotency that everimstance can only be made motter of presumption for the defendant in the hunds of the jury.

The Doomed Johnnak - I contemporary states on good authority that a respectable backselling form in Dublin, the name of which it moutions, we accustomed to sell four er five hundred Lauvets weekly, and now cells but seven o englit ultipather. A feather shows which way the wind blows.

A Subscriber to a food for presenting that disignished surgeon, the tate Sie Charles Bell, with a tribute of respect from the medical profession, on the occusion of his leaving London for the metropolis of to otland, its ires to leavy " the amount that was collected, and in what manner it was disposed of. Also of their he reportant of him-hy whom executed?-

M. N.-A Chemist-R. W. S. Cottonus-Mr. S. P., Elinburgh-Musa-declined with thunks, -O er other Con very welcots need week.

Enavia. - In our last number in the second column, page 275, dele "falsa," for "vitue" read rigit, and in page 280, at the end of article on consumption, for "recommy" read enemy. NOW ON SALE,

THE MEDICAL TIMES ALMANAC, FOR

THE MEDICAL TIMES.

SATURDAY, FEBRUARY 4, 1843.

Salus populi suprema lex-

It is something to alleviate sickness—it is better to remedy it: it is best to prevent it. The two less social advantages are not of unfrequent occurrence. The scientific labours, the self-devotion, of our medical brethren, have done nearly all that human powers can avail to do, in detecting and combating death in every case where he is expugnable. The third duty-the duty, not theirs-but the duty of highest importance, viz., to prevent disease, has not yet been performed; and it becomes the necessitated office of our profession-still continuing its unfamed but noble mission of utility-to make known again and again to our rulers, the evils originating in the present system of public neglect of health, and to point out the best means by which this greatest of social boons-prevention of maladies-may be secured.

However neglectful public authorities have been in purveying for their subjects' protection from disease, we may still congratulate ourselves, as upon one of the results of advancing civilization, that they no longer pretend to excuse their inattention, in any silly faith that the spread of diseases is to be looked upon as solely the result of a supernatural power immediately interfering with the operation of its ordinary physical laws. The public writer, in these days, has only to prove that certain given causes, producing disease as their necessary effect, are allowed to gratify some private cupidity or indolence) an unchecked range of action, when they might be removed by a due interposition of law, and the ruler resisting a change stands selfconvicted, either of gross incompetency for his duties, or of a very wicked apathy in their discharge.

Now, while we admit that much has been recently done, favourable in certain directions to public health (and we derive from the fact of the increased value of human life that has thence arisen, a strong argument for making that much more), it cannot be too prominently shewn forth, that there are numerous widely spread agents in daily operation against the sanatory condition especially of the humbler residents of our towns, which, while only to be checked or removed by the governing power of the State, find in that governing power sometimes active support, frequently countenance, always impunity. We advance this statement in the boldest and most comprehensive words we can use; for, however startling it may be to those who, while aware of the injury to human life itinfers, do not reflect that with our cumbrous, of the river; this would doubtless improve the

piece-meal system of sanatory law-makingand our inefficient system of sanatory law administration—no one of our thousand injuries to public health has, in ordinary circumstances, a chance of remedy in a merely rolling senate, until the injury has grown to the height of an universal and unbearable nuisance, we have only to refer to the present horrible state of British sepulture-to our deficiency of town drainage-to the filthy condition of our supplies of water-to the squalid, dirty, and overtenanted state of dense metropolitan neighbourhoods-to the absence of open spaces, in towns, for popular exercise and recreation —to the unnoticed condition of our slaughter houses and meat markets-to the adulterations which, encouraged by certain profit and impunity, take place in every article of food, and even of medicine-and to the thousand nuisances erected for any knave's or lunatic's convenience or pleasure, which no public officer ever feels it necessary to abate: we have, we say, only to give a moment's thought to all this, to see that the accusation which lies at the door of our laws, might have been couched in terms still stronger than any we have used, and yet be far from outstripping

A work, doing great justice to our views on this subject, and which does high credit at once to the feelings and abilities of the author, Mr. Curtis, has been recently placed in our hands. As the writer—a member of our own fraternity, we are pleased to remark-was among the first who publicly called especial attention to this great department of social improvement-the first edition of his work appearing four years since—we may, in whatever observations we wish to give, fairly give him priority to his able successor, Mr. Chadwick, the author of the "Report ou the Sanatory Condition," &c.. Indeed, in following out our desire to call public attention to the question of Hygiene, we know of no better plan than to follow Mr. Curtis, step by step, through his principal positions.

The first subject touched upon, is the mode in which London is supplied with water: in reference to this, Mr. Curtis observes :-

The Thames is the principal source of the supply; and its water, if drawn from a proper spot, would be as good as could be desired; but, strangely enough, the companies which monopolise the sale of this important element, take it from a part of the river which receives all the impurities of the mighty eity, and where it is asserted that fish cannot exist. This is the first evil to be removed. The wants of the metropolis could not be supplied without resorting to the Thames; but there is no necessity for using its corrupted waters. Why should not we go a few miles above Loudon, and draw the needful supplies from the river before it reaches the city?

A project recently set on foot would, if exccuted, do much to obviate the inconveniences of the present system: I allude to the plan for forming a vast receptacle for the contents of common sewers, &c. &c. along the whole banks

quality of the water; the other part of the project, viz. the construction of open walks and terraces by the river side, would also be a great change for the better, improving the appearance and increasing the healthiness of the city

But supposing the water to be derived from an entirely unexceptionable source, much would still remain to be done. The mode of its distribution to, and of its reception in, dwellinghouses, has an important effect upon its quality. It is at present conveyed by leaden pipes either into leaden cisterns or wooden casks. Water contains carbonic acid gas; this acting upon lead forms carbonate of lead, a white pow. er, which being conveyed in small quantities with the water to the stomach, acts as a slow poison, affecting first the digestive organs, producing dyspepsia, and finally terminating in ne yous apoplexy, or paralysis.

It is an established fact, that the best material for forming vessels to contain water is iron, Iron tanks have for several years been used in ships, with the greatest advantage; and there is no reason why iron cisterns should not be substituted on land for lead cisterns and whoden

Of whatever material the re-eptades for water may be formed, they should be often emptied and carefully cleansed. The purest water must frequently contain clay and other earths; these are deposited, and in time, if suffered to remain, become animalised; hence, be the water supplied ever so pure, it must speedily be contaminated. For the same reason, it would be better that a fresh supply should be furnished every day, even though each supply were smaller than at present, rather than (as is generally the case now) only twice or thrice

It ought to be added that filtering does not purify water, as it can only remove the impurities which are mechanically suspended in it, and not such as are in a state of solution. When water comes fresh into cisterns only two or three times a-week, as is the ease with the New River water, filtering cannot much improve it, nor be successful in depriving it of its deleterious properties; we might as well attempt to remove the poison from a solution of arsenic by filtering. To prevent any injurious effects from its use internally, there must be a chemical process.

There is another mode by which an abundant supply of the purest water could be obtained, at least for drinking in any form, as for making tea, coffee, &e. which at the same time would greatly add to the beauty of the metropolis. I mean, the erection of ornamental fountains, which, giving out constant streams of springwater, would impart an appearance of coolness which is very refreshing in the sultry summer months, and would materially assist in keeping clear the sewers, into which the superfluous water would fall. Every person who has visited the Continent must have admired the pleasing effect produced by the fountains with which most cities there abound; and it is truly surprising that so obvious a source of beauty and ornament has been so long neglected in this country. Let us hope that in this respect we shall soon imitate our neighbours; who, on this point at least, have certainly set us an example well worthy of imitation.

The erection of pumps is strongly advocated, and the state of the Continent in this

Mr. Curtis states that in Berlin alone there are upwards of 2,000 public pumps. The sewerage is the next point adverted to, and the production of fever for want of sufficient drainage is pointed out; for instance, " in the fourth and fifth reports of the Poor Law Commissioners, it was stated that out of 77,184 cases of claims to relief during the year ended March 1838, 13,972 arose from fever in various forms, prevalent in certain localities distinguished by want of drainage and other causes." Such being the fact, the author might well say "few persons would have imagined that there was no sewer either in Cheapside, or Aldersgate Street; and yet such, till lately was the fact, sewers were recently, for the first time, constructed in both these leading thoroughfares. In the Old Kent Road, in Bethnal Green, and in some parts of Westminster. these indispensable requisites of a healthy residence are almost entirely wanting. The importance of drainage and sewerage is strikingly shown in the Report of Dr. Southwood Smith, respecting the causes of febrile affections, (which have for a considerable period been prevalent in Bethnal Green, and Whitechapel,) appended to a Report of the Poor Law Commissioners.

Provincial towns appear to be far worse off in this respect than London. Thus, in Mr. Chadwick's Report, a communication from Mr. Baker informs us, that in Leeds, out of 586 streets, only sixty-eight are paved by the !ocal authorities, and of these twenty-nine are either not sewered at all, or only partially so. Dr. Duncan, of Liverpool, states that he is doubtful whether there is a single court in that town which communicates with the street by an underground drain. Manchester is quite as bad, and no where do the regulations, respecting sewerage, appear to be such as not to require amendment. At this season of the year, there is a periodical outery respecting the cleansing of the streets, but no improvement has yet been made, yet it would seem a comparatively simple affair. Mr. Curtis says, "the inefliciency of the arrangements for cleansing the streets of the metropolis, has lately attracted considerable attention, and there can be no doubt that this is a crying evil, the removal of which would greatly contribute to the salubrity and comfort of London, and would be the more easily accomplished through the abundance of water. Not only the more crowded streets, but also the back courts and narrow alleys, wherein the poorer classes reside, should be cleansed, at least, once every day. The present condition of the public streets is decidedly injurious to the health and comfort of all classes. In no department of civic police is improvement more imperatively required. A self-loading cart, or street-sweeping machine, has been lately invented by Mr. Whitworth, of Manchester, which it is to be hoped will be speedily introduced into all populous towns. According to the description of it, given to me by its inventor, it is drawn by a single horse,

which receive motion from the cart wheels, and successively sweep the surface of the ground, carrying the soil up an inclined plane into the body of the cart. The operation of sweeping, loading, and carting away, are thus performed simultaneously; and one horse, besides drawing the cart, does the work of twenty men.'

The atmosphere of large towns is exposed to many causes of vitiation, from which that of the country is free, and our author gives many curious extracts from a rare work of the famous John Evelyn, (temp. Charles the Second), showing that this evil had attracted attention nearly 200 years ago; Evelyn proposed as a remedy for it a legislative measure for compelling the removal of all manufacturing establishments to some distance from towns. However practicable this may have been in those times, it is now, Mr. Curtis observes, impossible. " The advance of science, however, has put other and more simple means within our power for removing or abating the nuisance in question; all that is necessary, is an act compelling all factories, breweries, gasworks, ct hoc genus omne, to consume the smoke which they generate, and not to pol-Into the vital element with their refuse. This measure I conceive to be of the utmost importance, and essential to the success of any other plans for improving the public health. Parks, and other places of public resort and amusement, derive the chief part of their utility from furnishing opportunities and inducements for exercise in the open air; but, if that air be tainted and rendered unwholesome, this becomes an evil rather than a good. The means to which I allude as enabling us to get rid of the nuisance in question, is the patent smokeless or argand furnace of Charles Wye Williams, Esq., which is an invention of considerable importance. Mr. Williams is the author of an elaborate treatise on the "Combustion of Coal and Prevention of Smoke, chemieally and practically considered;" in which he gives an excellent exposition of the chemical theory of combustion, and ascertains the mechanical arrangements that are best calculated to burn with the greatest effect on the grate-bars, the carbonaccous fuel and its gaseous products. To the improper and imperfect combustion of the latter, are to be attributed those thick, fuliginous particles which, in the form of smoke, contaminate our atmosphere. Mr. Williams's agents, Messrs. Dincks & Co., of Manchester, have built a specimen furnace in that town for public inspection, and they have informed me that it has been visited by several of the nobility, as well as by the most intelligent engineers and manufacturers in that district. The novelty of this invention is, that the coals are burnt on the large scale of common engine-boiler furnaces without producing smoke; so that, as has been stated, there is literally no smoke to burn; and, indeed, Mr. Williams in his work, ably and most scientifically combats the opinion that "smoke" can be burnt, that is, with respect is compared with that of England. and carries a series of brooms hung behind, heat-giving effect; and, on this, he grounds

the want of success that has attended "smokeburning" inventions generally for the last twenty-five years." Mr. Williams's may be called a system of prevention, and depends on a chemical knowledge of the due quantity of air requisite for combustion, and the best mode of regulating its admission. This plan is in use in many large establishments and public works, especially in Manchester and Livergool, and has met with the approbation of several of the most distinguished chemists, and civil engineers,among others, of Professor Brande, Dr. Ure, Dr. Kane, Dr. Brett, Mr. Parkes, &c.

There are several practical suggestions for affording greater facilities and inducements to the inhabitants of the metropolis for taking exercise in the open air, well deserving of the attention of the authorities, for instance.

Great satisfaction has been given to the lovers of out-door exercise by the occasional playing in Kensington Gardens of the band of the Horse-guards, stationed at Knightshridge barracks; and it is to be regretted that this amusement is so scantily furnished to the inhabitants of the metropolis. In most country towns the regimental bands play frequently; and surely London ought not to be worse off in this respect than the country. It would add much to the charms of the Recent's Park, and induce many more persons to take exercise in it than at present, were the band of the regiment stationed at the Park Barraks, directed to play in it at stated times during fine weather. The band of the regiment stationed at the Wellington barracks might, in like manner, he directed to play in the enclosure of St. James's Park. If each of these three excellent bands were to play twice a-week, from three till five in the afternoon, a most agreeable recreation would be furnished to the inhabitants of the metropolis.

The Parks are not so useful to the public as they might be, partly because there is no means effecting refreshment in them, except milk, and cards and whey, which may be obtained at all the lodges. Were a casino allowed to be established in each of the Parks, where visitors could be furnished with breakfast or tea in the open air, in fine weather, the novelty of the thing would attract many, and thus induce some to leave their beds an hour or two before the usual time, and inhale the fresh morning air before it is impregnated with smoke. This measure would not cost the government one farthing, as a large rent might easily be obtained for the easinos, the greatest portion of which might be devoted to the improvement of the Parks. As a proof of this, I may mention that the rent received for the refreshment room in the Zoological Gardens defrays more than one half of the annual rent paid to government for the whole of the grounds occupied by the society,

Although much has been done, there is still room for improvement. On the Continent greater attention is paid to procuring places of exercise and amusement for the inhabitants of towns than in this country. There are, however, indications that give us reason for hoping that our inferiority in this respect will not be suffered long to continue.

It would be very gratifying to the public were the gardens of Buckingham Palace thrown open at those times when the Queen is not residing there. Both at Paris and

at all times freely open to the people : and he feels assured that our amiable Queen would not, were the matter properly repre- personally exerting himself to prevail upon sented to her, refuse to grant this boon to the employers to agree to some such plan, the community, especially after the noble having called on many of the principal example given by William the Fourth, in bankers and linen-drapers who have exadmitting the people to his beautiful pressed their willingness to forward this private garden at Windsor, which is directly | important measure. The last point to under the windows of the Castle.

Again :-

The gardens of the numerous squares in the metropolis are not nearly so useful as they might be, owing to the exclusive spirit in which they are managed. Why should they not be opened at stated times to the public generally, in the same way as the Temple and Lincoln's Iun Gardens > Such a measure would be of great benefit. Gardens like those of Lincoln's Inn Fields or Russell Square might become pleasant places of resort to thousands of young people who scarcely ever see a green field. I am aware that, these gardens being private property, and intended for the use of the The number of persons frequenting these grounds is very small; those at present exclusively entitled to do so appearing to neglect them altogether. There need be no fear, I think, that this indulgence, if granted, would be abused, or lead to the damage of the gardens.

There has been much talk lately, both in and out of parliament, about providing places for the recreation of the people. Would Government object to pay a small sum for the purpose of keeping in order all the gardens that might be tims opened, and for making seats and other accommodations for the public? I should also like to see the Zoological Gardens, and all the Exhibitions, orened gratnitously two or three times a-year, on the anniversaries of great

national events.

In connection with this subject, we may refer to the part taken by our author in the question respecting the shortening of the hours of labour,-tor of what advantage is the throwing open of Parks, &c. &c., to those unhappy persons who are doomed to toil so long, that they have neither time nor strength to participate in the enjoyment of them. On this point Mr. Curtis says:-

There can be no doubt that most occupations are injurious, more by reason of the excessive length of the time of labour, than of any inherent unhealthy tendency; and that if men generally were acquainted with the laws of the animal economy, and applied their knowledge to the counteraction of the morbide influences to which they are daily exposed, they would escape many of the miseries which they now too frequently endure. Such would be the results if, for example, persons engaged in business devoted the time during which they are released from labour to the invigorating of their frame, instead of spending it in practices which aggravate the complaints occasioned by their employments, and convert functional into organic discase.

The proposal for shortening the bours of business, now so generally supported in London and other towns, is one, the adoption of which would prove highly beneficial to the health of a very large class of the community, and would not, I think, be any detriment to trade. The class in question has of late years improved so much in its habits, that there is little reason to Victoria, the author observed that the grounds | fear that any additional time placed at its dis- | before the age of 20.

attached to the royal residences were posal would be mis-employed. The plan is certainly deserving of a trial.

> We un 'crstand that Mr. Curtis has been which we can at present advert, is that of Cemeteries, on which our author remarks:

The salubrity of the metropolis would be increased, if the practice of interring the dead within its boundaries were abandoned. For this reason, I rejoice to observe that the num ber of cemeteries round London is rapidly aug menting; and in a few years they will, I doubt not, entirely supersede vaults and church-vards -a result highly desirable on many accounts. Of the moral benefits arising from the use of eemeteries, and the admission of the public into them, much might be said-the advantages in regard to health must be obvious to all. highly desirable that interments in towns should be carried into effect with the permission and consent of the parties interested; but I should set apart within their precincts, nor vaults set apart within their precincts, nor vaults constructed in any of the numerous new process of creetion. The churches now in progress of crection. Kensall Green, the North London, and the Norwood cemeteries are beautifully laid outindeed, they are all admirable places.

The great difficulty in reaching any of the improvements we have been advo-cating, are the private interests more or less vested in every abuse. But a great public good is not for ever to be postponed to a petty personal interest. If it were, we know of no class who would be more justified in resisting a change of our present system than our own profession. The great mortality of children in the lower classes, evidenced by statistical research*the constant presence of spicading fever in dirty districts of our towns-the high rate of mortality among certain classes of our artificers-and a thousand well known facts like these, are only to be thought on to convince us that one-third of our practice depends on causes which wise laws and a vigilant administration, might reduce to nonentity. Yet, if any class be found. resisting this great improvement, or seeking to encumber public benefits by demands of private indemnity, we think we may pledge ourselve it will not be ours: and the circumstance leads us to a consolutary reflection, with which we shall conclude :- The age is not wholly worthless which presents medical men demanding the prevention of disease - and lawyers enacting the simplicity of litigation.

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 $^{^{\}circ}$ In the lowest districts of Manchester and I ends, of 1,000 children born, more than 570 die

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REVIEWS.

Practical Observations in Midwifery, with cases So. By John Ramsbotham, M.D., Late Lecturer on Midwifery at the London Hospital, &c., &c. Second Edition: London. Churchill.

WHEN an individual offers to the public a compendium, or general system on any science, he provides no sinecure for his reviewer, who has to peruse the whole carefully, in order to find out what parts are his own, what theoretical problems he has solved, what practical hints he has offered, and what new suggestions he has held out, more than others on the same subject. But a very different task is presented to us in the work of Dr. J. Ramsbotham, when we have to deal with the practical experience of a practical man on a few special points, to which he has peculiarly deveted his time and attention. Such subdivisions of labour, (as they may be justly called) are eminently calculated to advance science, and dispose us to hail with cordial welcome all works, which, like the present, come recommended to us with so favourable a letter of recommendation. . To begin with the beginning, we cannot pass over the preface without a remark. Dr. Ramsbotham states that "he was for some time sceptical as to the effects of the ergot of rye in labour, but that he is now convinced of its efficacy; still be doubts on a general principle, whether its introduction ought to be hailed as a boon, or reprobated as an evil." Now a similar remark might with equal reason be made use of in reference to many of our most valuable remedies in medicine; all are evils if injudiciously used; shall we therefore cease to use them at all? Dr. Ramsbotham does not appear to have noticed those newest discoveries in connexion with the ergot of rye, which fully prove in it the existence of two distinct principles, a narcotic irritant, and a simple stimulant. When thus given combined, the ergot will of course be highly injurious; when separated, the stimulant powers will be as highly useful.* Before dismissing the preface, why let us ask did our author include in it the quotation from Dr. Dewes in praise of the work? As a matter of shop policy, would it not have been turned to better account if left for his publisher's advertise-

ment? Coming now to the work itself, we shall follow the subject in due sequence. The intro-

ductory observations on general principles are exceedingly well written. They are free from that prolivity observable in most recent authors; the principles are clearly laid down, and explain adequately the meaning of the author; and taken as a whole, are calculated to convey much information. We feel, however, disposed to hold contrary views on one or two points. First, we certainly did not expect to encounter so long, we can hardly say so strong a list of objections to the non-muscularity of the uterus, from the pen of an experienced practical acconchenr. In our opinion, the able arguments of Sir Charles Bell are conclusive. Dr. R. explains "of what muscle consists," and because the uterus does not present a strict analogy in every particular, he considers it no muscle. Now we humbly conceive that his definition may be wrong, and secondly, that there are other precedents for supposing that more than one species of muscle exists. In denying the nuscular fibre of the uterus, the Doctor admits "that fibrous appearances are shown when a section of it is "artfully made." In the pursuit of science, we do not admit the term "artful," but think it easy to conceive that such may be the arrangement of the vterine structure, that no section would shew the fibres as the Doctor wishes them to appear, and that after all they may be present. respect to the analogy which has been admitted by most authors between thenterns and bladder, the Doctor does not deny the muscularity of the latter, because (when inflated) it may be seen; and proposes to do the same by the uterus when inflated. The bladder is not stimulated to contraction by the quality, but quantity of the urine. If it were by the former, it would not retain the urine at all; as it is, the quantity is regulated by habit, beyond which, it becomes difficult to retain it. In our opinion, the uterus is more decidedly a muscle of powerful action within itself than the bladder. The latter can do but little towards emptying its contents if unassisted by the abdominal muscles, a fact proved by the sections made into the parietes of the abdomen when they have become incapable of voiding urine. It may be said the parietes abdominis assist the uterus in labour. Yes; but in a much less proportion. It has peculiar properties, differing from other muscular structures, the most remarkable being increase during gestation, and decrease after parturition. He ask the question. therefore, if not muscular, what is it? Being an organ strictly analogous to no other, and yet in most particulars resembling muscle in its functions, what are we to conclude but that it is a muscle of a different species. Because the only one of that character in the animal machine, it does not therefore cease to exist. But is not the Doctor a convert to muscularity after all? (Vide 3rd paragraph, page 5, beginning "I admit that")

The size, shape, and practical situation of the gravid uterus are well described, the particulars respecting the placenta are also well given, and afford us a good opportunity of presenting a specimen of the author's style.

THE FUNCTIONS OF THE PLACENTA. -It is an organ found for, and appropriated to, the absolute service of the feetus; attached by the funis umbilicalis, it is the only means of communication between the mother and the infant within the womh; it is, therefore, the sole medium through which the principles of nourishment and growth can be conveyed from the mother to her child. The fetal blood distributed by the branches of the umbilical arteries to their extremities in the placental mass, and deciduous membrane, is there exposed to the influence of the maternal blood brought to the uterine openings abovementioned, and is impressed with certain benefits necessary to the goments of the abdomen with the hand, and

continuance of fortal life. The fortal blood thus replete with that nourishment and vivifying some thing, which it has acquired in its passage through the placenta, is returned to the body of the child by the umbilical vein, and is then quickly circulated over every part of the child's hody. The blood of the child, under this state of improvement, may be assimilated to that of the adult after its circulation through the lungs and its return to the left side of the heart. If interruption to the free return of the feetal blood from the placental circulation should be induced by any cause, the life of the feetus will be as certainly destroyed, as if the free passage of the air into the lungs were prevented under breathing life. When the placenta is partially separated from its uterine attachment, a loss of blood, proportionate to the quantity separated, and to the development of the uterine vessels, is a necessray consequence. The blood lost under such circumstances is maternal, not feetal; and if after such an occurrence, the fortus should be deprived of life, its death is produced by, in the first instance, the diminution, and at length by the entire deprivation of that vital impression which is communicated to the blood or the child by its passage through the placenta. But when the mass of the placenta itself is ruptured, as, for instance, by the passage of the hand through its structure into the uterus, under a caof implantation of the placenta over the month of the uterus, the blood of the child will be discharged through the lacerated vessels.

The author speaking of uterine action says, "the child whether it be alive or dead is wholly passive." This may be true, but during a long experience we have invariably found dead fectuses to produce protracted labours. This is a fact known to many, and it seems to prove that a living child in utero is a stimulus to that organ tending to shorten labour.

On Natural Labour.-The author's observations are lengthy and valuable; it would be impossible to follow him through them all, but we recommend attentive perusal. We shall only touch upon those parts which appear to us to differ from other opinions, or on which some doubts may arise. Dr. Ramsbotham says, "the pressure of the head of the child on the soft parts proves an increased stimulus to uterine action, and expulsive efforts are the consequence." This is not sufficiently explicit. We believe most obstetric writers are unacquainted with the fact, that there are two distinct actions set up in the structure of the uterus during labour; the first is dilatatory, during which no expulsive efforts are present, and which are confined to the cervex uteri, and its immediate neighbourhood; when this is completed, a second action is set up (expulsive) by the uterine structure of the upper walls and fundus uteri. The head of the child passes the os uteri, and presses on the soft parts, producing by that pressure, what? A sympathetic action of the diaphragm and abdominal muscles hitherto mactive, but now powerfully assisting expulsion. We have noticed these interesting phenomena for many years, and as illustrative of them may mention that if two fingers be gently introduced into the vagina, and pressed on the perincum, the diaphragm and abdominal muscles will be excited to action. A similar influence is produced by faces in the rectum, causing propulsion. We have here a valuable adjunct in labour when used with due caution. Though this fact has long been known, a writer in the Lauret claims if as a discovery. He explains the action on the principles of Dr. Marshall Hall's theory of nervous distribution.

On the expulsion of the head, shoulders, and the body, there is often an intermission of pain, and our author recommends waiting 'however long the intermission may prove.' We think gentle friction by grasping the inte-

^{*} See the experiments of M. Bongeen, M. Bodin, and Dr. Clay, of Manchester. Med. Times, vol. 6th, page, 355.

moving the mass over the uterns can do no harm, it generally produces the required pain, and in our opinion is better than waiting long. The Doctor's remark 'the child should be rather entirely expelled, than even partly extracted," is excellent. As to the time for bringing away the placenta after delivery, the author's accuments favour a greater length of time than seems to be strictly necessary. And we are disposed to dissent from him entirely, when he states in respect to the placenta 'deferred as long as it seems consistent with professional duty so to do, or the clamours of the attendants will permit," and again as to manual extraction of the placenta, "The friends of the patient and even the patient herself, should also in most instances be apprised of the intended operation, that their complete sanction and permission may be obtained." Surely we misun detstand the author; if not, we are bold enough to say the rules are bad. For ourselves, we would eject all clamorous attendants from the chamber. saus ceremonie; though to the patient we should think it right to state what we were about to do; but when our author speaks of asking permission to do our duty of those who can know nothing about its requisitions, he compels us to ask what could have been his meaning? Should the patient or her attendants object to what is required, there is an end of the matter. In that case the acconcheur had better make his bow, and give way to those in whom they can confide. The directions of the author (page 38) on proceeding to extract the placenta appear to us remarkable. In conducting examinations, or rendering manual assistance, &c., the patient, we perceive, is laid on the left side, and Dr. Ramsbotham uses his left hand for introduction, and the right for application over the parietes. If this work was intended merely for a record of the Doctor's own experience, it would matter little, but if intended for the instruction of others, he should have prefaced these remarks by informing the reader that he was ambidester. The profession as a whole are not so, and to say the least of the instructions they are not the most decent. We have always understood, when the patient lies on her left side, (the more proper) the right hand ought to be introduced, and rice versa. If there he anything in the nice discrimination of the organ of touch or in physical power, the right hand should have the preference. Suppose the acconchenr sitting at the bedside, the patient on her left side, the right hand is easily and most conveniently situated for introduction, and the left, under cover of the bedclothes, can as easily command the parietes. Indeed the left hand cannot be used for vaginal introduction without placing the patient most indecently across the bed, with the nates almost in the lap of the practitioner.

The following paragraph deserves especial notice in reference to febrile diseases arising from the suppression of the lochial discharge

after delivery.

The sudden disappearance of this discharge within a few days after delivery, with an enlarged nterus, is usually a prelude to dangerous disease. with febrile symptoms. It is not to be surposed that this sudden disappearance produces these symptoms, it is the more indication of the accession of disease, of which such symptoms are the necessary attendants. We, therefore, pay little attention to the present interruption of the behial discharge, except as a symptom, and use no specific means for restoring it, or, for obvinting its supposed bad effeets; we apply our endeavours to the removal or relief of that cause, by which the temporary interruption is produced.

We know this to be the opinion of many

its fallacy; too little attention has been manifested towards the missing lochia, and too much to the consequences (fever). We think it casier to restore the lochia by hot fomentations, hip baths, camphor, and opium, and thereby check the febrile symptoms; than to Juse sight of the lochia, and treat a fever, which, if it once fairly sets in, we have great difficulty in controlling. We repeat it; the suppression of the lechia is the cause, and not the consequence of fever, at least that is our opinion.

On adhesion of the placenta, the author is decidedly at home, and we would recommend his observations to the perusal of all obstetricians. Much b nefit may be derived from the practical illustrations by cases appended to them. Simple retention of the placenta from want of uterine action, and also from irregular contraction of that organ are ably treated. If enything, we think the Doctor waits a little too long on the average before he attempts extraction

We had proceeded thus far in our remarks, when our attention was arrested by the uncertain statement as to the ultimate result of many of the cases illustrating this work. cases on so important a subject should assuredly end in a manner to leave no doubt of their ultimate result. Many are of this un-certain character.—" Case 6 h She began to revive from her fainted state: 1!th This woman was left under a state of great exhaustion, but in a few days she had so far ra'lied as to promise to do well; 16th. I left the poor woman under a state of great exhaustion, but in a few days she had so far rallied as to promise hopes of her recovery; 17th. I was permitted to leave the house about one in the morning, and the next day she was as well as after any of her former confinements; 19th No result; 22nd. The next morning I was informed this patient had passed a tolerable night, and that, upon the whole, she seemed in a more comfortable state than, from her preceding sufferings would possibly have been expected.'

On disruption of the placenta, we certainly agree with the author that it ought seldom or never to occur. It is almost always the offspring of ignorance or mismanagement. We do not, however, coincide with him when he states "that after failing in the first attempt to remove the adherent portion any further, manual assistance is inadmissible." The first attempts are generally by inexperienced or ignorant practitioners; and when a second person is called in, the least he can do is to try and satisfy himself whether it can be effected or not. The serious and often fatal results of cases left to medical aid only, is sufficiently alarming to warrant a little more manual assistance than the author advises; two cases out of five, of his own illustrations, being fatal. His medical treatment-it must be said, however, - is well conceived.

Cases of relaxation of the uterus after delivery productive of internal hamorrhage come next inder notice, and however much we may admire the candour of the author, we certainly feel some surprise at not finding any allusion to padding and tightly handaging the uterine reyion most valuable adjuncts in obstetric practice. We smile to find the anthor fixed for many hours together applying mechanical pressure with his hand, when a full dose of good ergot and a well applied bandage would have effected the purpose much better; the warmth of the hand having a tendency to increase hæmorrhage. Collapse after Labour the anthor attributes to the too sudden removal of pressure, arising from the want of accommodation of the

shock on the mind, from having a dead child, &r. The only hint we see of bandaging in this chapter, is conveyed in the following words. "I recommend a proper degree of pressure on the abdomen by the hand or otherwise." Indeed, the omission of bandaging seems to us, of the most serious importance throughout the work. We have seen many cases of progressing collapse immediately arrested by a bandage, and all obstetric practice must be deficient without; for if collapse arises from the too sudden removal of pressure, what better means can we suggest than artificially to restore the pressure.

On profracted labours the author is lengthy, classing all under that heading if more than of We have, 1st. twenty-hours continuance. Those of mere lengthened duration as to time; 2nd, Those requiring more than natural efforts; 3rd, Those in which the child's head and pelvis are slightly disproportionate. The first or lingering, he accounts to arise, 1st. From undue resistance given by the soft parts; 2nd, from the diminished energy of actual efforts; 3rd, From malposition or direction of the head in the pelvis. With regard to the undue resistance given by the soft parts, the author's description, treatment, &c., are worthy the importance of the subject. He very justly condemns any attempts to basten labour by irritating the os nteri, artificial dilatation, exhibition of stimulants, frequent examination, or that very pernicious practice of rupturing the membranes, in which we fully agree. We do not, however, see any hint in this chapter to the effect that very many of these cases (among the working elass particularly) arise from over exertion, and bring on what may be termed premature labour, when the secretions are absent, and the soft parts not fitly prepared for the purpose. Very many cases have we witnessed of this nature, where, instead of interfering or waiting for nature to work out the problem when she is ill prepared for it, we have given a powerful opiate, enjoined quiet, and prohibited stimulants. Such eases have been days, nay, some four or even six weeks before natural labour came on, when there being an abundance of mucons secretions, and the parts being well prepared for the transit, the accouchment has been of the usual character. In all cases of protracted labour one enquiry is imperative. Is the patient at the full period of gestation? If there is any reason to suppose she is not, labour ought not to progress if it can be controlled by any reasonable means. As means of relief, the author proposes five classes, -opiates, venesection, clysters, fomentations, and placebos. We think the division useless; the whole being medical, would have done as well under one head as five. To opiates the anthor is unfavourable. Now we hold them valuable when used judiciously. As stimulants only, we consider them inadmissible. In controlling uterine action when premature, they are, in full doses, highly valuable; and we are warranted by experience in declaring that females under such circumstances will bear much larger doses than at any other time. We quite agree with the author that no relaxation of the soft parts, or increase of their secretions takes place from the exhibition of opium. On blood-letting, he speaks more favourably, but with becoming caution. Great discrimination is requisite in bleeding, particularly in habits previously of delicate stamina. Clysters being harmless, may almost always he used with advantage. On fomentations, Dr. Ramsbotham offers no experience, although practitioners in other countries speak highly of the warm bath. With regard to the last division, (harmless fraud or placebo mewriters, but long experience has convinced us of abdominal viscera, or from the impression, or dicines) we must at once declare them unworthy of any practitioner of high standing as an accoucheur.

In considering the second class of protracted cases, viz., those from diminished energy of natural efforts, the author says nothing of opium. Now if the parts are not duly prepared, and a cessation of pains occur, it should be remembered, that a good opiate proenring a few hours rest, will bring on pains afterwards, fully capable for every purpose. If the soft parts are well prepared, and the os nteri well dilated, the ergot is the best and only resource. The author, however, speaks of it eautionsly and evidently as a late convert to its powers. He says, sometimes it is found almost inert. So is opinm, and why? Because the empidity of druggists (favoured by neglect of selection by the practitioner) induces them to vend old specimens which of course are inert, and the failure should be attributed to the drug, and not to the idiosyncracy of the patient. In cases of protraction of this nature, the author states there is often trouble with the placenta, for want of uterine action. We should say scarcely ever if the ergot is properly used. As to asphixia of the child, we have an impression, that giving the ergot in substance will produce that state; but that if the infusion be given, no asphixia. or at least, only an asphixia of a very trifling nature will occur. The author, we regret to observe, appears not to have paid due attention to the late discoveries on the ergot

The author's remarks on protraction from malposition, or direction, are both cautiously and judiciously written. The person given as an illustration (45) in our opinion, would have had her anxieties sooner relieved by a bold opiate and quiet, than by the perambulations recommended to her; the pains would in all probability have returned much sooner. The next subject of enquiry -" protracted labour, under a natural presentation combined with a slight degree of difficulty;" in other words, "forceps and vectis eases" is an ably written chapter, shewing to considerable advantage the capabilities of the author. It would be impossible to follow him through the whole of this excellent part of his subject, there being no less than fifteen heads or divitions, establishing the necessity for instrumental interference, but with every deference to the author, we think case 51 more adapted to the long forceps than the vectis, and that case 55 exhibited a great waste of time. While admiring the author's candour, we beg to assure him that the application of some unctuous substance would have improved the process a little. In protracted cases combined with greater difficulties, the author is feelingly averse to cephalotomy, except under the most urgent necessity. He then uses the common erotchet, but speaks highly of Dr. Davies' forceps for craniotomy. In the section, "preternatural labours," the author endeavours to establish a diagnosis for ascertaining breech presentations before labour, which we think not sufficiently conclusive.

On shoulder presentation the author makes the following valuable remark :--

Every case in which the presenting part does not come within range of the finger, especially after the establishment of pains, and relaxation of parts, ought to receive an unusual share of watchful attention, for that fact alone ought to excite a justifiable suspicion, and some other part of the child except the head may be placed at the brim of the

The author is particularly desirous that the practitioner should not lose the favourable moment for "turning with advantage by any inattention or absence, &c.;" and the directions are so well given, that they cannot be studied without advantage.

On uterine hamorrhage, a subject of immense importance, the author is much more brief than we expected. The fact of spare and thm persons bearing loss of blood better than those of corpulent habit, has often been asseverated, and is confirmed by our author, who is averse to bleeding in hæmorrhage, because it is generally passive; speaks also cautiously of ergot, but in other directions and applications of manual assistance, is more decided. Uterine homorrhage the author divides into "accidental, and unavoidable." On "rupturing the membranes, turning. &c.," there is nothing new; the same may be said of "unavoidable hemorrhage" with one exception. We think some degree of caution is required in proceeding to deliver, where the placenta is attached over the os uteri, particularly when the os uteri is a little dilated and rigid. We have seen powerful opiates allay the pains, and conseonently the hamorrhage, very frequently. The inference is, that the process of labour is premature, and the case has gone on for days or weeks longer, pains have again occurred, and even hamorrhage, but under the more favourable arrangement of the os uteri in a dilatable state. This should be borne in mind. and if practicable tried rather than rupture, when the os uteri is rigid and scarcely dilated. Parturient convulsions previous to, and subsequent to labour, is a part of the work well worthy of perusal. With regard to the first 'on venescetion," the author observes, "if the lood does not flow out in a powerful jet, little good arises from it." Indeed he goes so far as to say," if it flows lazily from the orifice, it would have been better not to bleed." Now here we do not fully accord; we know the value of a rapid abstraction of blood, but think the form of the incision may often prevent the blood rushing out like a jet, and yet the abstraction be quick. Copious and repeated bleedings, powerful evacuants, &c., are almost the only means in convulsions previous to labour, with delivery when it is practicable. Should convulsions continue during delivery the same means must be resorted to, more energetically applied. On the still more in tractable convidsions after delivery, opiates and stimulants are justly condemned, and enemas of assafeetida, and ol, terebinthing recom-

On multiple births nothing very remarkable occurs. The author is of opinion that conception is simultaneous in cases of twins, &c., but gives no reason for so thinking. There is no certain criterion during pregnancy to indicate twins. The children are generally smaller, and the mother larger, but we do not think with the author that in such cases there is less chance of arriving at the full period of uterogestation, although the probability is generally acknowledged to be smaller in triplets, or quad-

The article "abortions" is exceedingly interesting, but somewhat unconnected. treatment of abortion by bleeding he justly condemns: he might have included astringents also. We think opinm in full dose the sine qua non of practice, in preventing abortion, a remedy on which he is silent, The Doctor's candid statements in respect to rupture of the uterus are deserving of great praise; he appears to have no wish to hide his unsuccessful eases, of which he has recorded thirteen. Three successful ones shew most clearly that rupture of the nterus is not necessarily fatal; indeed, we are convinced after so many cases recorded by Douglas, Murphy, Mitchel of Dublin, and others, that such should not be given up as hopeless. The modern operation, peritoneal

will bear in the hope of relief, and recover fter the most extraordinary extent of injury.

With respect to retroversion of the uterns, a subject of much importance, it would be better (in our opinion) not to wait; but at once replace the organ in its normal position, if possible. We must name our dislike to the position chosen by the author for his patient. Might not an equally effective and more deli-cate one be chosen? His observations on the attention to be paid to the bladder by the catheter are most important.

In polypus of the uterus (which is sometimes mistaken for long standing inversion of the uterns) the author advocates the removal by ligature in preference to the French mode by curved knife. When polypi are connected with os uteri and cervix, authors (generally) have added more to their importance than they deserve, making their extirpation a tedious process (as the ligature). We have without loss of time frequently removed the mass by twisting when the pedicle will give way, and the tumour has come into our hands without ha-morrhage, or the slightest bad symptom. By this mode the pedicle is most likely to give. way at its origin, and less likely to returns We do not say this summary practice is always advisable, but when the pedicle is slender, it saves much pain and offensive discharge. The volume concludes with a case of sudden death during pregnancy, after considerable excite-The antopsy confirmed the author's ment. idea that death arose from disruption of some vessel in the uterine structure of considerable magnitude, which he supposes to have had the same effect on the gravid uterns as blood effused on the brain.

as blood enused on the branch.

In conclusion, we must be permitted to say, that we have felt great pleasure in the permsal of this work. It contains the perusal of this work. much practical information, great candour in the relation of experience, without a wish to hide the unsuccessful portions. The reader will profit by it if he use his powers of discrimination There are, as in all works, some faults visible, as we have very freely noticed; but its good points are many, and make it a valuable addition to our obstetrical literature. The points on which we differ are few and our readers have our objections at their judg ment seat. On the valuable portions of the wor we have freely descanted, and with our bes wishes for future success, we cordially take our leave, hoping that others imitating his good example, will record their own experience more, and other people's less; and not give themselves so much trouble in extracting our hardcarned fees from our pockets by presenting us io new type, and under new fancy covers. learning which has long reposed between the parietes of every decently lined medical caput in the kingdom - a professional theft on our money, and time, which should make such meddling carriers of other men's wares as hateful to men-as by their hopeless poverty they seem to be to Go'ds.

An Essay on the Nature, Causes, and Treatment of Deafness, Se. by W. Thornton, M.R C.S.L., late Surgeon of the 97th Regt. Churchill,

Before expressing an opinion on the merit. of this small work, we must, as a warning, in justice owing to our readers, acknowledge some personal predilections for the gallant anthor. Though noknown to us, personally, he has been good enough to inform us of the pleasing fact-so favourable a prima facie evidence of the goodness of his taste and the exsection, sufficiently proves to what extent we may go with safety, and how much females subscriber to our "highly valuable periodical"

tympani.

of the ear, through the

he has favoured us once or twice with eases of ' deafness, arising from morbid conditions of the mucous membrane of the stomach," or of some other part equally connected with aural disease-in which cases the "successful treatment" was a very prominently exhibited featace - and we have, finally, to acknowledge the cife of the book before us, with a very courteons request " for the honour of a notice," accompanied with the outshadowing of an indistinct hope to us of a voyage to that El Dorado of Jonemalists - "Advertisements." Thu weighed down by a gratinude which is not the less lively become it less a deligiful reference to f cours yet to come, our readers will be pleased to take our commendations with some little distrust, and give us credit for no mean sum of impartiality, if by any accident we so far conquer our prepossessions as to reach the length of an occasional censure.

Some time since, it was our painful duty, in reviewing a brochure on the Ear, to express a rather marked disapprobation of another Aurist-1 very general favourite of our hebdomadal contemporaries- we mean that very, very active centleman-Mr. Yearsley. As we have peculiar notions of the duties of reviewers, we not only criticized, but read his book; and as the impression was rather an impleasant one, that greatest of human traitors, memory, which so remorselessly lets slip any delightful reminiscence, retains to this hour a tenacions grasp of almost every word, nav, every syllable, imprinted during that afflictive visitation. This freshness of recollection, this mental malady of an ill-fated editor, ought to be no offence in either Mr. Yearsley or Mr. Thornton -- but it is certainly an unfortunate circumstance for one of them; for the coincidences, nay, the identity of opinion and of expression, on professional subjects, which the two authors exhibit in their different books are so perfect, as to justify the notion that the two gentlemen have joined together to keep up two annal establishments on one stock of trade. They appear to exhibit an economy of the "raw material," a saving of that priceless commodity, knowledge-for which the scientific world owes them the deepest obligations. Let us present a few examples:—

THORNTON.

Sudden transitions from heated assemblies to the r ld air, or vice sersu, are much more than exposure either to an uniform high or lowtemperature, and should, therefore, he avoided. As the mucous membrane is the chief point affected by cold, or injurious influences, all eauses that act upon it prejudicially should be held in apprehension; and cold and lumidity being by far the most frequent of these, and affecting the ear in the greatest variety of forms, hould be guarded against with the most sedulous care.

In these diseases the ameous membrane is the tirst tissue affected, though the continuance of the disease in either form often leads to disease of other struetures, especially the osseons and muscular content; of the cavitar

VEARSLEY.

As the nuncous membrane is the chief point affected by injurious influences, all causes that fikely to occasion cold, act upon it prejudicially should be held in apprehension, and cold and humidity, being by far the most frequent of these, and affecting the car in the greatest varicty of forms, should be guarded against with the most sedulous care. Sudden transitions from heated assemblies to the cold air, and vice rersa, are much more likely to occasion cold than exposure either to an imiform high or low temperature, and should, therefore, be avoided.

> In these diseases the mucous membrane's the first tissue affected, though the continuouse of the disease in either form often leads to diserse of other structures, especially the osseems and muscular content of the cavita-

tympani. Supportation of the car, through the membrana tympani, may justly be regarded as the termination of inflammation of the mucous membrane, the 10mefaction of the membrane having closed up the minute opening of the tympanic extremity of the engachian tube. had the sees are exerted by the cosed environmeon the inflatted menbrane occasioning pain resembling that which happens when the pulp of a tooth inflames within its osseons envelope. In the chronic form of disease the same thing happens, but in a less marked degree.

In the first, the dis-charge comes from the cavity of the tympanum. with loss of continuity in the membrana tympani; in the second, the discharge is secreted in the external means alone, Internal O.o.r. lowa is always the result of inflammation of the mucons membrane, or otitis, and generally of the acute form of this disease, External otorrhica generally comes on in consequence of irritation of the wembrane within the tymponum. Sometimes it occurs in cases where there is no sign of disorder on the intended side of the $\frac{dram}{dram}$, appearing $\frac{r}{r}$ is $\frac{r}{r}$ in the lining of the meatus. But even granting this to occur oftener than I believe to be the case, I consider the pathological characters of disease of the lining of the meatus to be altogether different from those of the skin, and closely resembling, in this respect, mucous membrane. The cutimembrane. The cuti-cular lining, as it is termed, and the sebacions follicles which secrete an inictious matter in sufficient quantity. to keep the canal and external surface of the membrana tympani in a moist state in the progress of otorrhea, gradually passes from the natural secretion to the copions discharge of mucus, or even pus, without the intervention of suppuration ; -- circumstances which never octegnment.

metabrana tympani, may justly be regarded as the termination of inflammation of the mucous membrane, the tumefaction of the membrane briving closed up the minute opening of the tympanic extremity of the custachian tube; and the pressure exerted let the closed eavity upon the inflamed incinbrane occasion pain resembling that which happens when the pulp of a the chronic form of disease the same thing happens, but in a less marked degree.

In the first, the discharge comes from the cavity of the tympanum, with loss of continuity in the membrana tympani; in the second, the discharge is secreted in the external meatus alone. Internal otorrbeca is always the result of inflammation of the unicous membrane, or otitis, and generally of the acute form of this disease. External otorrhas generally comes on in consequence of irritation of the membrane within the tympanum, Sometimes it occurs in cases where there is no internal side of the dram, appearing per se from the lining of the meatus. But even granting this to occur oftener than I believe to be the case, I consider the pathological characters of disease of the lining of the meatus to be altogether different from those of the skin and closely resembling, in this respect, mincons membrane. The cuticular lining, as it is termed, and the sebaceous follicles which seerete an unetnous matter in sufficient quantity to keep the canal and external surface of the membrana tympani in a moist state, in the progress of otorrheea, gradually passes from the natural secretion to the copious discharge of mucus, or even juis, without the intervention of supportation, circumstances which never occur in the common in-- cur in the common isternment.

And in a little pamphlet, which, including title-page, index, and preface, numbers but 44, pages we have 16 in which the similarity, or rather the identity, is equally singular. Now, we are credibly informed that there really does exist no partnership between the two authors. that on the contrary, Mr. Thornton disclaims, with much hanteur, any and every connection with Mr Yearsley, and we further know talk about advertisements to the proprietor

Suppuration from our publisher's circular, and from our own annotancements, that the book first epenly published (though both appeared in 1842) was Mr. Yearsley's. Under present circumstances then, and until we are differently advised, we may make hold, we hope without injury to a modesty-which we suppose not to be more maiden y than suits a professional antist to compliment the gallant army surgeon on the Napoleon-like daring with which he walks into the very eamy of the enemy, and despoils it of its richest stores. Surgeon Thornton has evidently not campaigned for nothing, - and the dexterity, the unflineling case, with which he beats his rival with his own troops, entitles him incontestibly to rank as generalissimo of pens when the pulp of a tooth indiames within irs osseous envelope. In the chronic form of di-well versed in the diseases of the ear," and we may venture to add, that, however versed in diseases, (happy, critical expression!) he is not less well versed in the treatment of that class of them which appertains to the resangusta donei. If candour were one one-half as profitable as boldness, we should have a new reading in his next edition,-" diseases of the pocket" would substitute "diseases of the ear."

But one word more to Mr. Thornton, before leaving him to the tender mercies of the College of Surgeons, who, after this enumeration of his merits, will no doubt find it convenient (the envious Council!) no longer to be overshadowed by the dazzling radiance of his professional daring. " Let him that hath ears to hear—hear." You tell us, in your book, of pretended arrists"—you declaim against their ignorance, which, you asseverate, has not been profitless of good only, but instrumental of injury; and you hopefu'ly prophecy an era of aural wonders, from the competition sign of disorder on the arising from your appearance in the professional market. Now, you have sent the journals, eases of "curred deafness" why was the name and address of the patients invariably omitted? We have at this instant in our hands, your MS, relating a case of " successfully treated" deafness, sent to us this week. How happens it that the imaginary girl having but disease of on car, (" the other being perfeet") you yet speak of obstructions in the enstachian passages - evidently demonstrating ignorance of the elementary anatomy of the ear? How is it that you talk of an "elongated tonsil," and of giving a lady forthwith three notes, by touching it with lunar caustie? How is it that you tell us the cure was effected by bougies and iodine, and mention, as your reason for publishing it, the wish to illustrate by it the importance of the vapour donelie? In fine, who is the professional singer? - where does she live? When all these questions are answered satisfactorily, we shall allow you to encourage hopeful expectations of what science may expect from you-to declaim against your brother-aurists, as mischievous wrong-doers and pretenders and to put yourself forward to your fated patients, in the worthy Lancet's words, as "well versed in discases." Till then, we must brand you as a living, moving, mischief-making disgrace to the profession you encumber by your membership, and hold you up as a warning of what one medical journal, at least the only medical journal not in bookseller's hands will do for men who think they can publicly contemn decency and virtuerush into the vilest kinds of empiricism and yet carry with them, through all their tilth, the support of what should be the profession's guardians its own press-if they but enter themselves as subscribers to the publishers, and

ABSORPTION OF IODINE, -M. Leon Brousse has tested the urine of several patients who had been treated for dydrocele by the iodine injection. In every instance he was readily enabled to discover the metalloid in the urinary secretion by the third or fourth day after the operation, and in one instance, at least, as early as the second day. In this case, that of a Spaniard, forty years of age, the scromm continuing swollen, and evidently containing fluid five weeks after the operation, it was punctured with a lancet, and a sanguinolent fluid evacuated, which, on being subjected to the usual tests, yielded evident indications of the presence of iodine.

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HENRY R. L.I OVD.

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THE MEDICAL TIMES

A Journal of English and Noreign Wedicine and Medical Allairs,

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LONDON, SATURDAY, FEBRUARY 11, 1813.

FOURPENCE,

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ON THE LAWS OF THE DEVELOPMENT OF ORGANS; OR TRANSCENDENTAL ANATOMY APPLIED TO PHYSIOLOGY.

By E. R. A. FRRES, M. ober of the Institute, of the Analemy of Medicine, Professor to the Marenmod Natural History, Paris, No. 8c., 8c.

SUMMARY, + On the principle of determinations in comparative anatomy -- general facts on organogeny and embryogeny-unatomical philosophy of Aristoth -application of the idea of the final causes to the organisms of man and animals (Galen)—union of the method of Aristotle with that of Galen (Haller)—object of the general sciences; their modes of proceeding -the descriptive sciences-nature of the facts serving as the basis of these two orders of sciences -their inconveniences and imperfections,

WE may, then, consider the following propositions as established in organogeny and in gene at em-bryogeny.—That the organs are compound bodies; that the materials or elements which compose them are primitively multiple and disassociate i; that it is, from the mode of their rennion, that the principal organic variations result and, perhaps, also the fundamental arrangement of the more inferior animals.

It is further established: That the more we descend in the animal scale, or the further we advance in embryonic life, the more do we find the division of the organisms increased; that, consequently, these two states of animality correspond in the lower animals, and in the course of the embryogeny of the superior animals; that this general fact being reproduced throughout the whole animal kingdom, it results that organogeny is but a transitory comparative anatomy, as in its turn comparative anatomy is in some measure a permanent general embryogeny.

Finally, it is established: That, from the com-

plication of the organisms in embryos and animals, and from the evolutions which they undergo in these two states, result organic species, and, perhaps, also animal species, especially in the branch of the invertebrata. It therefore follows that, supposing organisms to possess a common point of origin, their differences become established by the greater or less number of evolutions which they experience in the course of their developments, It further follows, that to found upon positive results, either the scale of beings, or, what amounts to the same thing, the scale of their organisms, we must compare the two states of animality at the period at which they correspond; that is to say, the embryogeny of the superior animals with the fixed and arrested organization of the inferior animals.

These first principles, however, being established, new difficulties present themselves in the theory of the epigenesis of formations. We may readily conceive, from the foregoing observations, how difficult it becomes to preserve a correct line to guide us through these continual variations.these so varied combinations of the constituent materials of organs, whether in the animal king-

These metamorphoses, in fact, so completely change the organ, and the organisms, that, without a rigorous method of determination, we should be liable to combine organisms of a very inferior rank with organisms of a much more elevated charaeter; to draw together organic elements which naturally repel one another, and to set apart other elements which have a mutual attraction; to compose, in a word, true scientific monstrosities. To avoid this confusion, which has already produced such grievous results in the determination of the organisms of invertebrated animals, it is more than ever necessary to lay down rules which may serve as a guide in this branch of science. Such, then, is the task which I propose to myself in the following observations,

To determine, in the anatomical sciences, is to fix the principles by which we may distinguish an organ, or a system of organs. Determination is the basis of the philosophy of these sciences, as facts are the basis of their material part. These are undoubted truths. But naturalists have hitherto attempted this determination of parts, sometimes by the simple consideration of the function, sometimes by the consideration of the form, and at other times by that of the form and function combined; position and connections were, in general, almost entirely neglected. This variation in the modes of determination is so perfectly bound up with the progressive advance of our knowledge in anatomy, that I think it necessary briefly to allude to its sources. The philosophy of the ancients, especially Platonism, soared above the level of nature. Aristotle was the first who, so to speak, made it descend into a sphere of utility. and rendered it applieable to the physical and moral wants of man. The spiritualism of Plato became in some measure embodied in the philosophy of Aristotle, who was thus necessarily conducted to the study of the organic forms so happily exposed in his History of Inimals. This work, however, contained views only on the general characters of the animal kingdom; the descriptions were neither minute nor profound, nor was any necessity for such then felt. But the progress of medicine soon caused this want to be appreciated. Having discovered in disease a deviation from the normal action of organs, physicians soon became convinced that, to appreciate the disturbance of the functions which forms the essence of every disease, it is first necessary to understand the regular condition of these functions, Now the functions being merely the result of the action of the organs, their study necessarily led to that of the apparatus or organs themselves. The definitive object being the knowledge and appreciation of diseases, physiology was thus rendered subordinate to medicine, as, in its turn, anatomy was necessarily entirely subservient to physiology. The organic form was, then, what the function demanded.

But function is an absolute result; the least disturbance, the least change, leads to disease, and the latter to death; it therefore follows that the organism, subservient to the function, must be like it-immutable and absolute. Such was the conclusion to which Galen was inevitably and logieally conducted in his remarkable treatise " De usu partinm." Such also was the origin of the applieation of the final causes to the organisms of man and of animals. They were believed to be exactly what was requisite to attain the end for which they had been created. To suppose them different from what they are in the perfect being, enjoying the full exercise of his functions, would, according to Galen, have seemed like blasphomy against the Creator. Although subordinate, the form was, then, supposed unchangeable, and anatomy was entirely devolved to the service of physiology, as the latter was to that of medicine. Thus do we doctrine of the immutability of organisms, and of their action at all periods of existence in organise l beings, as afterwards proclaimed by the advocate: of the system of pre-existences. Hence the cause of that exclamation of the founder of physiology, "Function is the only determinator in anatomy."

Galen had implicitly delineated the functions in man; he had defined, conformably to his views, the arrangement of the apparatus. To touch this system, was to shake his physiological editice and to attack his hypothesis of the final causes; it was, moreover, a sure course to draw down the anothemas with which his followers overwhelmed their adversaries. Vesalius attacked it and paid with his life his audacious temerny. Vesalius dissected the human being, which Galen had not done; Galen was mistaken-such was the simple fact Vesalius said so,-but Sylvius, in reply, asserted that it was better to believe that nature had deviated from her ordinary laws, than to place in doubt the infallibility of the physician of Pergamos This decision solved the difficulty for the moment, But to believe is not to demonstrate in anatomy : so said Beranger, Eustachius, Fallopius, and all the followers of Vesalius in their turn. However great might have been the genius of Galen, how could be deduce with precision the form and arrangement of the human organs from the disposition and form of the organs in animals? But science now marched onwards; by the process of dissection, the various parts entering into the composition of man were separated one from another; this separation accomplished, they were studied singly and collectively, by considering them under all their aspects, and from this im-men e labour finally arose the descriptive anatomy of man-that wonder which had been for ages hidden from human observation. Man once reduced into his diverse elements, it became necessary to distinguish these elements one from another, to attach to them their especial names, and to divide them into groups, so as to facilitate their examination and apply to each their proper attributes. It was thus that the distinction of organs and of tissues was formed, from a comparison of their characters—their nomenclature, from the attribution to each of a name implying its individuality-and their classification, from combining into one group all the organs possessing general and common characters. Never was scientific movement more rapid, or marked by more numerous or positive discoveries, or by such as were of more immediate application to the wants of man; the natural sciences also, which formed a part of the study of the physician, pressed forward in the steps of human anatomy towards the determination of their several objects. Botany, zoology, comparative anatomy, mineralogy, geology, chemistry; these are, as it were, but the aids of human anatomy, which kept in advance of them all. Thus—to determine an organ, a body, or an animal, to give to it a name, to describe it in all its details, and to range it in its place or under its proper classification .- such are the characters of the descriptive sciences, the base and essence of which, so to speak, are constituted by form and its variations.

This rapid sketch suffices, then, to show, on the one hand, how descriptive anatomy detached itself from physiology-and, on the other, how, in organic determinations, the consideration of form was substituted for that of function. The method of Aristotle, essentially descriptive, neglected the function for the form; that of Galen, essentially rational, neglected the form for the function. The first of these methods earried in its train the descriptive sciences; the second led to the general sciences; the truth thus lay in their combination, and to Haller we owe the merit of first discovering this fact. He founded the determination upon form and function combined; thus, emdom, or in the course of general embryogeny, find in the works of Galen the origin of the bracing in his method, the descriptive as well as the

Without repeating what we general have already said on this subject, I shall merely remark, that man, as well as nature, would be but ill-appreciate I with regard to the collective charactors, the harmony and the final object of his organization, if our knowledge vere limited to the facts disclosed by the descriptive sciences. However indispensable may be the truths of detail composing these latter sciences, we perceive that these truths are not deathel one from another; we see that they are mided and be und up together by varion and memorials relations; by something in common which serves there, in some measure, in commercy had so a point of origin. The study of the a principle or point of origin. The study of the a principles constitutes, then, a measure of general facts, the discovery of which the control of the particular truths, ad thus form a useful body of dectrine. Such is

otherabject of the general sciences. Here, again, anatomy has opened a rome to the other natural sciences. For, as we have already seen, we find the principles of the method in Ari (othe and Galen, But in general as in de-criptive anatomy, they could be but of imperfect application. The curse of this is in the very nature of the general sciences. If the descriptive rejences are composed of facts of detail, the general beinges are constituted by facts of a collective nature. In the descriptive sciences, we are concantly seeking the differential characters of facts. In the general sciences, we search for their relations. In the first, we decompose nature - we isolate facts. In the second, we combine them we conneer them together by the force of analogies. The tudy of the analogy of organised beings forms, then, the essence of the general sciences: as that of their obferential characters forms the e-sence of the descriptive sciences. Honce arise their differences, their subordination, the simplicity of the descriptive sciences—the complication and extent of the general sciences. I may here remark, that to a corrain the differential characters of a body, of an organ, or of an animal, we must study it solely at the period of its complete development. The descriptive sciences thus include but the history of a given period of organised beings, -as, the adult age, in lame a surtomy; the corresponding period Canimal, in comparative anatomy and zoology: and, in bother, that period of vegetables when hey are arrived at the term of their increase. While, on the other hand, to appreciate the analogies of bodies, of organs, of animals, or of vegetables, we must embrace all the periods of their exist nee, by following all their changes and ne rancorphoses: v. smust form a complete history of the life of organised beings; and honce the exten of the general sciences. As the purpose of the descriptive sciences is merely to discover some given elipser, a series of organs or of bodies, their labour is in the anomeasure entirely mechanical or material: the system is the same in all. Hence, the simplicity of the descriptive sciences. While, on the contrary, the general sciences, purposing to establish the conditions of existence in the organs of being, to show how they become what they are, whether considered in themselves or in a ference the one to the other their Llour is necessarily more clevated, more intellectual; it requires the fall exercise of a floation and congrais on. ganing of objection should I poined that pro-maind segacion which, by the companion of natural bodies, rises ar made evalution to a rother, until it calmices all within its grisp. Sith v or Ho minds of Aristotle, of Gelen, of Harvey, Melpighi, II iler, Biehet, Mechal, Goshey Saint-Hibire, Curier, Blaireille, &c.

The de criptive sciences tal. Italies such as they are, vithout enquiring into their nature, their it tim se, microscopical er sucle slar constitution: hilst, on the contrary, the object of the general is to unfold this infinite e mposition of organical beings. If new it follows, that the dedigitary sterior are in themselves sufficient for themselves by property whilst the general aciences care in themselves sufficient for hadi j readly require the aid of all the others. Undoubte lly, the basis of the general sciences is icarred by first as at the intent of the descriptive set, on the 28th January, at Pindico, ones a boottone of the durant in their nature. The Potnes of the Menvin.—This has been for a of which the descriptive sciences are comparable to Dr. Lever, of Guy's Hospital, for to other chapter the constituting the coneral ci-the best cosay on organic disease of the womb-

degree; on both sides, however, the certified is equal. But although there may be a proportionate degree of certainty in these two orders of sciences. we must still a knowledge that the causes of error are much more numerous and powerful in the general than in the descriptive sciences, latter have merely one rock to avoid -that of saying too much. From a disposition to descend into details, we become prolix; we hide the prominent points under a heap of insignificant characters; we describe, without mading ourselves understood, This is a fault into which the descriptive anatomy. of man less often fallen. Hence the dryness of this study; but, from the same cause, its constant Now, the contrary is the fact with the general sciences: immediately that the mind has seized on some relation, some character common to several facts, it aims ac extending it to all; it conjectures instead of translating facts. To render generalities useful to science, we must be able to contain them within limits. Thus shall we remove the abuses to which the general sciences have become so liable. Now, we may readily conceive that the abuse of details which may have crept into the descriptive sciences, will necessarily have less grievous results than the abuse of generalities in the general sciences. The progress of the former has, therefore, been regular, constant, and uniform; whilst that of the latter has been irregular and unequal; hence would the variability of the general sciences, as compared to the fixity of the descriptive sciences, have presented a sad contrast, were it not more apparent than real. But when we search its couses, we shall find that these sciences are constantly tending towards the same end: and, on attentively considering their means, we shall find that they constantly progress according to the same logical and inflexible principle—that of analogies, or organic conformities. Such is the constant principle which we find pervading these sciences, from the time of Aristotle and Calen down to the present

How then is it that the general sciences, invariable in their principle, have become so varied The cause is in their very in their applications? nature. If the general sciences are composed only of relations between particular fact, and consequently of general facts, it is evident their they must follow the descriptive sciences. Without the just knowledge of particular facts, the establishment of true relations is impossible. The imperfortion of the general sciences has, then, at all period, depended on the imperfection of the descriptive sciences: the one has merely been the result of the other. Thus, the imperfection of the general anatomy of Plato, of Hippocrates, and of Aristotle, was evidently owing to the few fixed notions acquired at that period upon descriptive anatomy; and, on the contrary, the progress made in the general anatomy of Galen, evidently had its source in the strong impulse which he gave to descriptive anatomy. We must also remark, that the notions of the ancients on general anatomy, being founded much more on the outer aspect of animals, than on their internal conformation, were necessarily more of a readegical than of an enatomical character. Thus, their observations on the analogies of the different animals, were founded on the teeth, the relations of the limbs, of the lord, &c.; these observations were, leweyer, correct, inasumch as Aey were confined to what was placed beneath their eyes. But, on the other band, when from the exterior they pass to the interior, we perceive at each step that they are reas after upon what they had not accurately observed, and often upon what they had not observed at: It; thus are their views frequently but vogue blee, which go completely astray in their application; abundant proof of which is found in the views which they have left upon the development of animals, as well a on the origin of parts.

Opert Aux .- Dr. Malachi B'al e, at his house in Taunton,-Mr. T. W. B. Kirkby, Surgeon,

ences are removed to a second, a third, or a fourth | COURSE OF LECTURES ON THE DIAG-NOSIS, PATHOLŌGY AND TREATMENT OF DISEASES OF THE NERVOUS SYS-7 K 7 L

> WALSHALL HALL, M.D., F.R.S., Fellow of the F - I C. Hour of Planierous, London, Sc., Se.

> > CECTURE VI., Descried December 14, 1912)

General Trans.—I purpose to bring before you today the subject of apoplexy. Now apoplexy is divided into two kinds :--in the first place, you may have congestion of the brain without a rupture of a broad-vessel; and in the second place, you may have it with a rupture of a blood-vessel; and you will see that throughout this lecture it will be a very important distinction with which we begin.

I must first detail to you the preliminary symptoms of apoglexy, and I will begin this subject by just adverting to what I have always considered very important, and that is, -that many subjects are not to be learned in the hospital, but they are only to be learned in private lessons, and this is one of them :--you can never learn to detect the premonitory symptoms of apoplexy in an hospital. You know that patients with such symptones never come into an hospital, therefore, you never have an opportunity in an hospital of observing such a case. This may be said of all such

Now with regard to the premonitory symptoms: these occur in many subjects. In one set of cases you find a patient of a sanguineous temperament; he looks florid, is reduct and muscular, and it is obviously a case of falness. In another set of eases, the patient, instead of being sanguineous, is one of the most phlegmatic you can meet with. You may, perhaps, think this distinction is morely a scholastic one, but it is not so by any means. In order to prove this fact, I will detail to you a ease that occurred to me but a year or two ago. A member of parliament came to me describing attacks of giddiness-attacks attended with sympto as which seemed to indicate a degree of apoplexy. He lead been under treatment, and he had been repeatedly leeched and cupped, he had been leoched from the beginning, and had been empted and leeched into a state of anemia. The symptoms had very ranch subsided, and he might have been anomious from the beginning. But there might have been marrely a deranged state of the stomach and bowel, and the repetition of bloodletting only led to an aggravation of the symptoms, by aggravating that state of things that is commonly associated with the state of anemia. I put him under a different treatment, and I went so far as to prescribe proper itions of from for the anemia, and a frequent and moderate supply of meat, to which I added a little wine. From that moment he recovered.

This suggests an important distinction with regard to the premonitory symptoms of apoplexy. Sometimes they are altogether those of a flow of blood to the head, or a state of plethora, and on the other hand, there is the opposite state, namely anomia. This state does not show that there is not congestion within the head, as is proved; for if an animal be bled excessively, that animal becomes comprose, as if all the muscle, were reduced extremely by the loss of blood. In that state, which is a state of renetice, many persons become affected with a state of things approaching to apa-plexy, that is 10 say, a little disposition to coma, and coma goes on, and then you have apoplexy.

Now with regard to the symptoms; they usually relate to the head. Vertico, this hes of light, and noises in the ear, and a mementary loss of memory; this is the most diagnostic mark of all, The most diagnostic sign of an attack of apoplexy is a momentary loss of consciousness. In several instances in which these attacks come on, you find a momentary loss of memory, so that the patient has foreaften those things he used to know; and there is a momentary loss of consciousness, so that the patient has forgotten where he was, and what he was about, and so on. I think this more important than headache, and more important than | vertigo, though that is very kaport int. However.

all affections of the cerebral functions may be considered as relating to apoplexy, unless you can at all trace them to a disordered state of the stomach and bowels, or something of that kind. An attack of apoplexy leads you to suspect such things to take place.

Another diagnostic mark is very important. How is it in a real attack of apoplexy, a patient, generally speaking, is better from having the head very much raised? In general, when a state of inanition takes place, that must be the case. A relative of mine, frequently on coming down stairs was so giddy as to be obliged to take hold of a chair or sofa. This state of things came on generally in the morning, and it would lead you to the idea that there was plethora, so much so, as to lead to a state of inantion of the whole system. Suppose you are called to a patient with some of these symptoms. Look to the countenance, and see whether the features are sanguineous or thished; inquire into the habits of the patient, and consider the constitution of the frame, and so on, and see whether the patient is apopteetic. Now suppose you come to the conclusion that there is really an attack of apoplexy; your only safe-guard in such a case is this :-throw the patient into a state of exhaustion by placing him in a chair, upright, with his face looking towards the ceiling, and let blood flow. This important fact was impressed upon me by an individual case, which I will now relate. A gentleman some years ago, a most active person for his days, fond of sporting and hunting, and who seemed altogether to be quite a bon vivant when young, complained of symptoms which seemed to be those of apoplexy. The was bled until an incipient state of syncope was produced. I observed that the patient lost ninety ounces of blood, and did not faint at all, and I have to add to this remark what I have added on former occasious, that he never suffered from the loss of blood. Remember you have two things, one is merely incipient syncope, and the other, the remote effects of the loss of blood. He did not suffer from the remote effects of the loss of blood, though he lost ninety onuces. What do I mean to show by relating such a case as this? Why, simply to show that this is a case of all others in which the patient bears the loss of blood best. I do not bring this as an example; but if you follow the measures adopted in this ease, you must place the patient in an upright pocase, you must place the patient in an upright position, and bleed until you have produced some impression on the whole system. I do not recommend you to take minety ounces of blood, for I hardly think the human frame can spare so much blood. blood. However, this patient did, and he escaped every symptom of the remote effects of the loss of blood. At any rate, before adopting this measure, you should acquire a vast deal of information respecting the individual case. In the first place, you learn whether the brain is affected; then, if you find that the patient is robust, and bears the loss of blood, you may generally come to the conclusion, that this is a state of things that requires it, unless you find by your diagnosis that the symptoms will be followed by a more serious

I now pass on to attacks of apoplevy. Attacks of apoplexy must be divided into two, invariably; for practice sake and for the sake of the proguesis. and everything interesting in such a case. The two states into which apoplexy has been divided are, the case of mere fulness or congestion, and the rupture of a blood-vessel. These two cases, you see, are different. The one is a case in which it is important to use active remedies, and the patient is almost sure to recover; in the other case, in spite of all the remedies you may employ, the patient may not recover. I do not say that a patient does not recover from a state of rupture, but he is never in the same state that he was before. Now in a violent attack-1 am going now to state what I have observed in an actual attack of apoplexy-a case which is not one of rupture but one of mere fulness-the patient in such a case, is taken with apoplexy like a thunder stroke; just like a thunderbolt strikes a man, and he falls down, and is perfectly unconscious. No impression can be made on his mind, or any of his

attack.

nance, and laborious breathing. If the symptoms are confined to the cerebral system, they are infinitely less important; but there is danger the moment you find the symptoms begin to involve the symptoms attached to the spinal marrow. Suppose a man in a state of deep apoplexy, so that you can hardly produce any sensibility by pinching him, or shouting in his car; still, if he breathes well and swallows well, and there are no spasmodic symptoms, that man is sure to recover. But the danger comes on when there is choking in swallowing, and the spasmodic affection is just in proportion to the violence of the symptoms.

Centlemen, the danger is in proportion to the violence of the symptoms, and in proportion to their duration. For if you bleed a patient, and he is rendered better, and the symptoms are mitigated, I need not tell you that your hopes revive; if you leave him, and he is no better, I need burdly tell you that your hopes are east down. Not only is the violence of the symptoms important, but also the duration. These symptoms, when continued, in spite of active remedies lead to a terrific prognosis, which is worse as these symptoms are gradually increased. If you have a violent case, and it subsides a little on letting blood, then your patient will most probably recover; and if you have a violent case, in which the symptoms do not subside at all, then your patient will die. If you have a moderate case at first, and the symptoms greatly increase, that is always futal.

I may mention a case now while I think of it. A patient had the symptoms of apoplexy, and he could not swallow. I asked the question, "is the could not swallow. I asked the question, "is the swallowing any better?" I was told "no," and he did die. You see what I mean then; that if the symptoms are not mitigated, the patient is not in a state of hope; even if they are not violent, and the symptoms angment, there is dauger still. There is another ease I may mention; it is that where a patient has had a slight attack, and in the nuist of the treatment he comes to have another, and perhaps a third. That is almost sure to prove a fatal case.

So far, then, with regard to the symptoms, and with regard to the prognosis. In this cure, the remedy is, as I said before, blood-letting; and all I can say is, that you must adopt the measure I recommended to you, that is the common mode You must place the patient perfectly upright, and bleed until some impression is produced upon the system. You must continue this until the checks become a little less livid, and until you have induced an alteration in the state of breathing, and you begin to see only a few dew drops are on the forchead. I mention these symptoms because you are to seize the very first of them, and then you will not have to let blood any further. Bloodletting is the remedy, and it has the effect of leading you not only to determine the diagnosis in the case, but any one can tell whether the case is one of apoplexy or not. The object of the diagnosis is to ascertain whether it be a state of apoplexy, and then to lead you on to the prognosis.

Now I want to pass on to a case of rupture of the vessels which is a totally different affair. If then, there is rupture, and there are violent symptoms, and the patient is taken with apoplexy, do you know what is the diagnostic of rupture? How do you determine it? The diagnostic mark is congestion and paralysis. If you puch the foot and hand, on one side or the other, and find the foot withdrawn, and the patient is in a state of utter insensibility, which may occur, you may hope there is only congestion. I give this to find the diagnostic mark, whether there is rupture or not. I do not know whether 1 am pressing too strongly on this subject, but practically, with, perhaps, some exceptions, this is true; however violent the apoplexy may be, if you find the limbs retract on being pinched or pricked, or touched, you may merely hope that it is apoplexy without rupture. But if you find that instead of this being the case, there is distinctly on one side partlysis, you may be perfectly certain that, violent as the form of the disease is, the case is hemiplegia, and the patient can hardly be said to have any chance of recovery. But suppose you find there is hemiptegia;

he this. You have got hemiplegia :- look to the degree and violence of the apoplectic symptoms, the cerebral symptoms: there is danger or there is hope, according to the violence of the symptoms. If there is no violence, if the symptoms be slight, and there be hemiplegia, it is always time, but he cannot live. Then you may have violent hemiplegia in a state of apoplexy, or you may have it without any apoplexy at all. A patient, with a brother of mine, was attacked with hemiplegia. All at once he fell down as if shot; he could not move one side, yet his senses were entire. It was quite obvious that even without apoplexy he had a violent attack of hemiplegia. With this hemiplegia there was a difficulty of swallowing, and when these two things go together, you may be sure that something has occurred, and that nature cannot recover from such a state as that. I have a preparation here, that of a cyst extending into the centricle, and I need not tell you, that when α eyst extends into the ventricle, recovery is next to impossible. If there is violent hemiplegia with a cyst extending into the ventricle, respiration can scarcely take place. The attack is marked by complete hemiplegia, and hope scarcely exists in such a case as that; when the hemiplegia is complete, the prognosis is exceedingly low indeed, and exceedingly latal.

Now I want to bring a few remarks before you, relating to the degree in which you are to hope or fear the recovery of a patient. Now suppose there is hemiplegia; if hemiplegia be confined to the arm and leg, even if it is very severe, still there may be a degree of hope, because a cyst in the hemisphere of the brain, not communicating with the ventricle, may produce this state of hemiplegia. If there is hemiplegia in the arm or leg, and with this, paralytic affection of some other part, I need hardly tell you, the disease bears a more aggravated character. Now what other parts are to be affected to produce this? In the first place, the cyclid is affected. Tell a patient (I am supposing the patient is not in a state of deep apoplexy) to close his eyes, and he does so, but you find that one is much better closed than the other. If the left side is paralysed, and the patient is told to close that eye, the corner of the month is raised, and the other side of the mouth falls a little. Another remarkable diagnostic is that the tongue is drawn to the paralytic side. The angle of the mouth on the paralytic side is drawn upwards, and on the other side it is allowed to fall down.

I may here make an interesting remark, that in no case of hemiplegia I have ever seen, have I ever seen the cyclid not closed. But it is a very different thing when you have paralysis of one side of the face from disease of the portio dura, or seventh pair of nerves; for then the cyc does not close at all. But here you have complete hemiplegia of the voluntary part of the nerve, the cyclid closes with every part of the opposite side, though not as it were, on the principle of association, as it has been made out recently by Professor Muller.

I will first now explain to you, that you may be aware of the fact, why the tongue is drawn to the paralytic side. You have seen the sterno-cleido nastoideas muscle, and you are aware of the division of the fibres of this muscle. If one side of the tongue is paralysed, the tongue will be drawn to that very side on account of the direction of the tibres. Now suppose you have paralysis, it is quite plain that here the head will be drawn a little to the paralysed side, because the sternocleido mastoideas has oblique fibres passing from a centre to a point more distant from the others. When the muscle contracts, the direction of the head is to the paralytic side. This may very often form the subject of question in an examination, and is very important.

Well then, I now go on to another set of functions, and those local symptoms which relate to the true spinal system. The state of breathing —in a state of deep apoplexy the breathing very often becomes sterrorous. If the state of breathing under the inthence of remedies, becomes mitigated, the patient will probably recover. Suppose that after having bled a patient to the monest that can dark—and that you such to bled a pa-

tient,-the sympoons are not relieved, the patient will shao tourely die. So with regard to mother nervous symptom, which I always regard with terror, namely, the difficulty of swallowing. There never is difficulty of -wallowing with apoplexy, but it is a fatal sign. It is a sign of great danger, and if it continues in spine of remedies, the patient is almost sure to die; but if it becomes mitigated, he is almost sure to recover. If this state of things comes on after the first attack, then all I have to by i this it is worse sign, according to the rule given at the beginning of this lecture. Here, then, the true pinal system is involved. How is the true pinal system involved? Simply because $com\{er$ pressure. Violent congestion of the brain, and therefore counter pressure of cory pari within the skull, and at the base of the skull. There exists a part of the true spinal system of the top of the medulla oblongata. If that he pressed upon, you will have difficulty of I reathing, and there is difficulty of swallowing for the same reason. Within blood-letting does not relieve the parient, and this state of things continues, it invariably leads to fatal results. You may be sure it is a state of congestion.

Now, in congestion, generally speaking, the pulse is strong; ad moderately slow; on the other hand, in laceration, or the rupture of a blood-yes-el, or the laceration of the substance of the brain, con may remark that the countenance becomes path), the pulse feeble, and at the same time there some difficulty with regard to the capability of bearing the loss of blood. I have told you already that no disea e bears the los of blood equal to the this of congestion in the head, either before or for an attack of apoplexy, but especially hefore, hu an attack of apoplexy, a patient bear the loss

t blood extremely well.

But then there is be varion. This occurs when a lock is impressed on the whole nervous system on the shede system precisely like what we can observe by experient. Take no actual of its words and on his bodin, and you see the heart loss its power. By and by the heart to were treat the shock, and the circulation ones on. In t the same thing occurs in the human subjest in violent accident, or a violent convilsion, or a violent attack of apoplexy. Therefore, in that case, you have all the symptoms that I have cetailed to you, to which I add the influence of the shoels. Now I need hardly tell you, that under the little nee of a shock, the patient cannot bear to be a much blood. Now I am perfectly certain of a many a life—I do not say than many a death on the other hand has been caused -but many a the har been shortened by taking blood under the cooling deinthence of air attack of apoplexy and the pacaletic title, and a chock produced on the brain. Therefore in a rece of congestion, blood-letting is evended with some danger, and so in the case of moplexy, combined with Inceration, you may blood, but with extreme caution. If you do blood, the parient is a strong cuitton. It was do blood, the parient is solved by independent of their is the costs to do not be as the best of blood well, and if the symptom or near all visited, perhaps the patient will a very recover, but he A stool from the light of to resource soll action human, that priend, but of being resollected and from the first being to a first modules. I am per couled that it apply blood leatings is not be to be deposited, because there is the damage of precipe their

The proof interface in the arrange of present interface in the interface of the second interface of the second interface of the proof of the proof of the second interface of where the control pairs of the appear of the second of the A constitution of the region of the repairs be school occupy of of the brain and is not exon the content of the transminutes not ex-on the first of wire that bend place, the pu-cht of the variety live, though he does not severe in purely by Now it her home to the does not be the bender of helicited only that the content of the thought of the second of the content of the thirty of the contion of the lami plan -whether another or jos-

terior. I need not tell you that a clot in one hemisphere paralyses the opposite side. There is always this effect :-- it you have a complete eyst running along one hemisphere, you will have complete hemiplegia of the other side of the body. Now suppose the eyst is not so extensive and does not extend along the hemisphere, but is confined to the anterior lobe of the brain; I give you here a useful mnemonick, and if you comprehend it once well, you will never forget the effects,there is an affection both of the right and the left side. There is a double cross effect, because when the america lobe is affected, the posterior lobe is also affected, and when the anterior lobe of the brain is affected, it is the anterior extremity that is affected, therefore there is a double cross effect from side to side, from before backwards, or from belond forwards.

Well then, the next question is whether any other part is affected. I must mention one matter. When the clot has been confined to the middle lobe of the cerebellum, it has been said that there is a peculiar effect upon the genital organs, so that Mr. S., on one occasion, passing round the wards of an hospital with me, accompanied with some friend. said, "what would you say, if I were to say that it is not the cerebrum that is affected, but the cerebellum that is affected?" I replied, "I should think you very bold;" and be said, "I am very bold then, and I say that the patient will most On the post-mortein examination, it appeared that it was not the cerebrum but the cerebellum. He asked for the diagnosis, and be observed on examination, that the abdomen was in a state of sexual excitement. It had been thought, according to Gall, that the sexual organs are more or less under the influence of the cerebellum, and this showed at once that the cerebillum was affected in this case. I do not give that as a proved fact, but certainly the inference, (not as to the diagnosis) that the cerebrum has not anything to do with it, is true. A case occurred to a friend of mine—a case of deep apoplexy. There was nothing particular in that it is, and the usual remodies were applied, but be said the patient will mark die. Be did so, and on examination, there vas found a clot in the labe of the cerebellum. The question came to be whether there had been any excitation or sexual efforts more than usual, Now it so happened, that the patient had been hi-therto devoid of all sexual desires and power, and yet on the night previous to the attack, he for the first time transfected such power. I came to this conclusion, and you will see I was perfectly right, that the cerebellum was affected. But though this attack led to some manifestation of sexual affection in that patient, I am very fur from coming to the conclusion that therefore the earliellum is the control of sexual affections. There are facts which lead to an opposite idea. In the first place, the lobe of the cercledium is just over the medulla olden enter and being in such contiguity, it may affect it by counter pressure, or in any other way You comed six, laying two organ affected, which i the sour cof the function. You have the c two involved, and therefore you must not conclude that it is the cerebellion, or the medulta oblongs a eradually sinf and dies. I half never forget a that it is the cerebellium of the medulta obtings a case that comerchinary cappers as a label of that is affected without you have omedling

Now there are earling other effects. It has been proved, that where there is an injury of the modults olders, etc. there is a manife tation of the not create, proving installed that the medulla oblongers is a most d with the sexual organs. and on the other hand, it has been proved, that there has been an absence of cordollars, there is shown in a liberate of cordollars, there is shown in a liferation of solution is that you condition is that you condition is not provided by the parallel condition to do with the manifor hear of exact desire to power, but, in fact, that the remetion is a re-of-the mediath obligation. I dismiss this subject because it is one more of enriesit. Han of practical importance,

But there is another point I must bring before you, because this point is really important. Sometimes you find there is a unse of ap plexy which terminates suddenly -in a moment. Formerly you heard of indden death being traced to discretain effect produced, be the electricitie or that port of the brain, diverse of the lungs, or of the heart. But you find in all works on medical ju-

risprudence at the present day, that disease confined to the brain never leads to sudden death, that is to say, disease confined to the brain itself. You may remove the brain without that operation leading to sudden death. An animal so mutilated continues to breathe, and swallows, and performs all the functions of the true spinal and ganglionic system. If then, you have a case of apoplexy in which there has been instant and sudden death, you may be sure that something else has happened. Now what are the symptoms? Such a violent congestion of the whole brain as to compress the medulla oblongata, and to cause its functions to cease. You may have a violent laceration of the whole brain, or of one hemisphere passing from the anterior to the posterior lobe, and passing into both ventricles, and that may produce sudden death in two ways. First of all, the violence of the shock impairs the action of the heart, and then the compression of the medulla oblongata annihilates the actions of respiration. A case occurs to me at this moment, where the patient died in a moment; and the question came to be, what was the disease? I should tell you, that previously she had had some paralytic affection, and on examination, a clot was found just between the median lobe of the corebellum and the medulla oblongata. This, of course, pressed on the medulla oblongata, and produced sudden death.

Now remember the remarks I made. If you have such a disease, however severe, if it is confined to the brain, it will not produce sudden death. But if you have such a disease pressing on the medulla oblongata, or if there is a clot of blood situated so as to compress the medulla oblongata, respiration will cease, and the action of the heart will cea e alrogether. Sudden death may occur again in disease of the cranina, or disease of the local itself

You see, then, so far as I have gone into the subject, the important conclusion to which I come, that disease of the brain will not produce sudden death, nuless that disease of the brain be accompanied with such violence as to cause counter pressure on the medula oblonguta, or to produce such a violent rupture, as to cause the blood to escape not only into the cavity, but into the ventricles, or to form a clot pressing on the medulla oblongata.

I will now call your attention to what Cruvellder has noted on this subject:-He says, that you may have apoplexy from an injury of the tissnes, and not from runture so that there is a clot of blood poured out, but there may be an enlargenont of the capillaries—the blood thickening in the vessels. In the other case, you see the blood has actually escaped out of its channels, and found a cavity for itself. One case is capillary apoplexy. and the other is altogether apoplexy from rupture,

There is one other point I want to show you. because it is important. I have told you that under various circumstances yen may have apa-plexy or hemiplegia. Now I need not tell you more than recall your attention to the anatomy of the base of the brain, in order to lead you fully to understand the variety of circumstances that take place in apoplexy, which you can hardly understand, without reference to the anatomy of the base of the brain. In case of compression of the medalla oblongara, you have cessation of the respiratory functions, and therefore speedy death. Suppose there is such a state of things in apoplexy or rapture, that you have a pres are on any of the nerves at the base of the brain, I need hardly tell you in that case you will have blindne , and deafnes . and in this manner I believe for the most part, you may explain those peculiar phenomena. Lat sometimes occur in this case Another important thing to bring before you is thi. There is another kind of apoplexy in which the blood-vessels at the base of the brain are affected, A case is given at large in the Amale de Melicale Societe, &c. Now I want you to observe that in this case there is not anything very peculiar, and my very excellent friend, Dr. Grives, of Dublin. has furnished a case having precisely similar

I have now given you my view on the subject of apoplexy and paralysis, and I must conclude with a very few words respecting the mode of treat-

ing such an attack. In the first place, in an attack of apoplexy or congestion, 1 believe the remedy should be blood-letting. The patient must be bled first upright, and generally speaking, the blood should be allowed to flow until some slight impression is made on the countenance, or the breathing, or the pulse, or the skin. If you have hemiplegia, then, I say, beware of blood-letting : use caution, be watchful of the cause of the discase, and then I have nothing more to say on the subject. You remember the case I referred to, which occurred early in my private practice. have held blood-letting since in terrorem. What is to done further? After blood-letting and cupping, we should resort to what will not have the patient, for we dare not do anything further to the vascular system—1 rocan purgation. I recommend to you now croton oil. It was recommended by Dr. Abercrombic. There are other remedies of the same kind. It has this peculiar property, that it promotes the circulation of fluids by slow degrees. After this, all you have to do is to watch the patient, and to adopt such measures as the case may require. For instance, lecching or cupping may be adopted from time to time; the patient may be raised up in bed and counter irritation applied to the posterior part of the head. The patient may then be placed under the influence of ; mercurial powd as, and when I say that, I want you to observe, that if a patient does not recover soon, he scarcely ever does recover. If the attack comes on in the early part of life, it may be felt under many circumstances. It may come on whenever a patient is indisposed, or in any way attacked with fever, then the old coniplaint comes on. I have a patient in my eye when I tell you, that he had an attack at the age of 25, from which he seemed perfectly to have recovered, but he felt it again at the age of 40, when fever came on; and whenever he had fever, or was in any indisposed, he always felt a weakness of the paralytic side. When he get into years he walked lame. Nothing, in my opinion. converts young men into old men so completely as an attack of hemiplegia,

PRIVATE COURSE OF OPERATIVE

SURGERY.

By J. NOTTINGHAM, Esq., Member of the Royal College of Surgeons of London.

LLCTURE VII,

ARTICULAR AMEUTATIONS OF THE UPPER ENTREMITY,

GENTLEMEN,-When all efforts to preserve a limb or an important part of it, are evidently about to fail, when the general health of the patient is suffering from the progress of local disease, or life is endangered by the temporary condition of a part which has been the subject of accidental injury, we in many cases are obliged to have recourse to operations which mutilate the body, for the purpose of prolonging the life. It is undoubtedly better to live with three members than to die with fourhence the propriety of removing one (or even more) where its amputation is essential to existence. Leaving, therefore, the elementary operations with which we have been hitherto engaged, we proceed to give an outline of the operative surgery of the different amputations of the extremities, reserving for an after lecture some general remarks on these operations, and on the circumstances in which they ought, or ought not, to be performed.

We will first speak of the operations at the joints, where contiguous bones are separated, afterwards of the more commonly performed amputations, where the bones are divided with the SHW.

Amputation of the Fingers.

In these cases the stump of bone may be covered by one flap taken from the dorsal, or from the opposite surface, or by two smaller flaps taken equally from both; or instead of looking to the anterior and posterior surfaces for soft parts to cover the denuded bone, a couple of folds

proximate evenly in the middle line; the practice [of making a circular incision a little below the joint, and then a short and straight incision upwards on each side, so as to form two flaps, is troublesome and but seldom resorted to.

When two flaps are made in such small amputations the process is a tedious one, and occupie more time than we should like, beside which when the parts are subsequently united, the line of cleatrix crossing the middle of the stump cither from side to side, or from the dorsal to the palmar surface is much exposed to accidental injury and contasion from various causes, which in some cases for weeks or even months after the healing, might be the source of considerable suffering beare the adoption of methods of operating such as those which have been recommended by Lisfranc, passing the knife at once into the joint, dividing the lateral ligaments, thus opening largely the articulation, and lastly cutting a flap from the dorsal or palmar surface, or from that aspect of the finger which is opposite to the surface where the knife first entered. Suppose the middle finger were operated on, in critica of its two middle joints. and the flap made from the palmar surface, the skin on the dorsum of the finger had better not be divided immediately over the articulation, but a line or two below it, this incision being a little convex downwards; cut in this way it would hang nearly over the dorsal border of the extremity of the phalanx to be left behind, merely just turning over its edge to meet the flap-brought towards it from the palmar aspect-the latter affording the main covering to the stump.

After this first incision is completed, the knife readily enters at the back of the joint, especially if the portion of finger we are removing be a little flexed on that which is to remain, (the finger operated on having hitherto been held in the extended position, while the remaining fingers of the same hand are bent toward the palm and rest on ome firm support)

The next step is the division of the Literal ligaments, which might perhaps be regarded as on of, if not the most important part of the operation; this should be done rather with the point than with the middle of the bistoury, so as to avoid cross-cutting that part of the integument from which the main flap is to be formed.

The last step of the operation is commenced by gliding the bistonry, which has already traversed the articulation, along the other side of the phalanx to be removed, keeping it close to the bone; it is thus carried far enough to obtain a flap which will cover the exposed extremity of the stump, and the operation is completed by bringing it outwards.

In terminating this operation, it is better not to cut out too suddenly, and without any previous and gentle inclination of the builte, for if we do so, a stunted flap too thick at the edge will be formed, which it is more difficult to manage or to join with the opposite portion of integument than where the knife has been brought out less abruptly.

It is easy to reverse this operation by commencing it on the palmar surface, and taking the flap from the dorsal. Operations on the corres-ponding joints of the other flugers and of the thumb may be performed in a similar manner.

Metacarpo-Phalangial Amputations.

In amputating the fingers at the joints away from the meta-earpus, the flaps to cover the stump are obtained from the dorsal or palmar aspect of the finger, as may suit the choice of the surgeon or the peculiar circumstances of the case, but in removing the entire finger at the joint with the metacarpal bone, the flaps are mostly obtained from the sides of the latter at its extremity, in other words from the web of the fingers.

Supposing the middle finger to be removed in this operation, the patient puts forth his hand, which is taken and held firmly by an assistant, who draws the little and ring fauger on the one side, and the thumb and fore-finger on the other as widely apart as possible, thus affording ample space for the surgeon to attack the middle finger, all the set being extended; the farger has now to be removed at the joint, sparing the surrounding parts to cover the deninded bone, a couple of folds of integument may be obtained from the sides of the articulation, which may be cut so as to ap-

the palm, the incision terminating in that part where the caticle becomes indurated and thickened in labouring people, or just above the upper of the two folds seen on the palmar aspect of the root of the middle finger.

The joint is now to be opened, it will be found behind the most prominent part of the root of the phalanx, and to this the surgeon may, as is were, feel his way, the bistoury being held perpendicular to the metacarpus; and entering the joint may, in some cases, he a little facilitated by making traction on the finger to be removed, while the assistant fixes and holds firmly the band for in this manner the ligaments being put on the stretch, the line of a paration between the hone is more coady discovered to ligaments divided and the articulation traversed, the surgeon turns the edgof the bi tonly towards the tip of the lings i , and Leging it close to the bone on the other side of the root of the pholans, takes care not to bring the instrument out too soon, but on a flap car-responding to that made by the first incision.

In passing through the joint it is well to bear in mind the cupped form of the end of the phalanx, and the rounded extremity of the metacarpal bone articulated with it, and to guide the kinte accordingly.

The neighbouring fingers being bandaged togsther with a little broad tape, the bleeding is in most cases soon arrested, especially if the operation be performed after accidental injury to the part; in those cases, however, where the finger has long suffered from the progress of chronic discase, the enlarged arteries occasionally require ligature: union by the first intention will generally take place if the thops be kept in neat apposition.

When this amputation is performed by what is called the oval method, the incision is made completely around the root of the finger, commencing and terminating at the same point on the kunckle; the integrament is then a little turned up and the disarticulation effected.

In another method called the circular, the dorsal aspect of the incision does not mount so high, for it is carried round the root of the finger on a level with the upper line of fold in the palmar integument; the joint being farther removed from the first incision, the disarticulation by this method i. more difficult.

Of the three operations here noticed, the first with two flaps; the second by one oval incision. the third by one circular incision; the former, or the flap operation, is most frequently performed in this country. Some have recommended the oval method as interfering less with the integuneut of the palm, and leaving a cicatrix which does not enerouch so much upon it; the circular operation not so easily performed as the others, and possessing no advantage over them, has had but very few advocates.

When a corresponding operation is performed on the fore-finger, or on the little finger, the radial flap in the former, and the ulnar in the latter instance, should be cut a little longer than when either the middle or ring finger is operated on,

So much for the removal of the fingers septrately, sometimes, however, the four require to be taken away all together. Suppose we operate on the right hand; it is placed in a state of pronation, and the surgeon, as if for converting the four fingers into a one member to be removed, grasps them firmly together in his left hand; a narrow and strong bistoury is required, which is carried across the roots of the four tingers, cutting from the little finger to the index, (right side.) thus making a dorsal flap which is slightly convex downwards, one extremity of it corresponding to the ulnar side of the metacarpal articulation of the little tinger, the other corresponding to the radial side of the metacarpal articulation of the fore-finger; but it is better that the incision should commence and terminate a little below these points, that sufficient of the soft parts may be left to cover the denuded bones.

The metacurpus being elevated and supported by an assistant, the fingers are now forcibly flexed towards the palm, the dorsal ligaments, and exlateral ligaments being divided and the ends of the bones set free, the surgeon proceeds to form the palmar flap by gliding the knife under the metacarpal phalanges, and at the same time bringing it from the little finger towards the index, each finger being taken by the assistant as the knife separates it from the rest; in completing the flap in the palm, the surgeon should take care that he obtain a sufficient piece from the root of each tinger, for this joined with the integument from the opposite or dorsal aspect, will suffice adequately to protect the four-fold metacarpal stump; for this precaution is required, although in this operation the chief llap is taken from the dorsal aspect of the root of the fingers.

When the four fingers are removed together by what is called the circular method, the knife is passed over the roots of the fingers on both the dorsal and palmar aspects, the incisions corresponding to the folds on the palmar surface; the incision for each finger is turned a little on its side, so that the dorsal as well as palmar incision being semicircular, the course of the knife as described, suffices for completely dividing the integrament, the joints are next opened and the fingers removed. By this plan a somewhat greater portion of soft parts is preserved to cover the metacarpal stumps; the circular method may also be employed when two or three only of the fingers have to be removed:

We proceed now to notice those articular amputations of parts of the hand which are performed between the carpus and the metacarpus, or the

Ca(p)-metacarpean Amputations.

We will begin with the borders of the hand, speaking first of the amputation of the thanbwith its metacarpal bone, (not discussing at present whether this be a metacarpal bone or a phalaux,) afterwards proceeding to the amputation of the little finger with its metacarpal bone; we will next describe the mode of operating in removal of the index, the middle, and ring finger, with the corresponding metacarpal bones, and lastly, the operation for removal of all the four fingers with the metacarpal supports which belong to them.

Imputation of the Thumb.

The patient puts forth his hand, the assistant seizes the fingers, the surgeon seizes and foreibly extends the thumb, thus stretching the web between it and the fore finger; the edge of the bistoury is now applied to this web, and the instrument being kept close to the bone of the thumb, is carried onward to its articulation with the carpus, where it is stopped by the os trapezium, its edge is now directed towards the radial border of the thumb and the articulation traversed; the edge of the bistoury is next turned towards the nail of the thumb, and a flap is cut from the dorsum, the knife being brought out a little below the metacarpo-phalangeal joint; in cutting this flap the surgeon raises the integument with the fore-finger and thumb of his left hand, thus obtaining a full sized flap, or one sufficiently large to meet the opposite section.

The hitting of the joint and opening it may be facilitated by a method alluded to before, the surgeon making traction on the thumb while the assistant holds the hand firmly, thus separating a little the articulated surfaces of the hories, and bearing the thumb also away from the rest of the hand, which will put the inner lig ment, somewhat on the stretch, and thus help the bists ary into the joint; the bistoury for this purpose should be strong and narrow, somewhat like a length of dependance, but very stiff.

It is more or less difficult to form the flap from the dorsum of the thumb in this operation, as in that region the soft parts are not abundant, in consequence of which it is occasionally recommended to complete the division of the soft parts before the disarrienlation is attempted; the flap may, in this way, he formed precisely in accordance with the wish of the surgeon, and thus there will be a better prospect of neat cicatrization for the future; the dorsal flap being tirst cut, the knife next thrust down inside the thumb as far as the trapezium; and lastly the articulation travered and the part removed.

Amputation of the Little Pinger with the Metacarpal Bone.

A bistoury similar to that used in the last operation should be employed, the surgeon directs his attention to the ulnar margin of the palm of the hand, between the fold of the wrist and the fold at the root of the little finger, which is, generally speaking, slightly convex inwards, or in the ulmar direction and more or less plump, with plenty of soft poors, husele, and skin, whence to form a flap; an assistant holding the fore-arm and steadying the extremities of the fingers, the surgeon satisfies himself of the position of the hook-like process of the unciform bone at the uluar corner of the palm of the hand, with which the metacarpal bone to be removed is connected; or to proceed with the description in language somewhat plainer, the operator seizes the fleshy border of the palm of the hand, at a point corresponding to the upper extremity of the metacarpal bone of the little finger, and squeezes as much of the soft parts as he can between the fore-finger and thumb of his left hand, and having got this firm hold of the base of his flap, the bistoury is stabbed through it, close to the root of the metacarpal bone, taking care to be as high as the joint; the instrument is carried downwards, keeping close to the bone to a point a little below the articulation with the ph lanx, where it is brought out, the flap for covering the wound being now formed.

If the precantion here recommended has been sufficiently attended to, so that the flap now cut is of full size, there will be no difficulty in passing the knife through the interesseous space, close upon the radial side of the root of the inclucarpal home to be removed; the instrument thus passed through, the surgeon with the fore-linger and thumb of his left hand presses the seft parts whence the flap already made has been cut in the direction of the radius, while the knife is carried downwards to make its exit at the space between the little and the ring fingers, and thus the inner border of the hand, or the little finger with its metacarpal bone. is set at liberty, saving at the joint where it is tied to the unciform and to the next metacarpal bones, and this connexion is immediately overcome, first by thrusting the knife a little forcibly between the riots of the two metacarpal bones then bending ferci-bly backwards, (or in the direction of extension,) the metacarpal to be removed, thus putting the ligament at the inner aspect of the joint a little on the stretch, when a touch of the knife will open the articulation, by crossing which the part i removed.

It might fend to preserve more the natural form of the palm, its roundness at the inner border, and its breadth, if we could disarticulate the metacarpal bone, and take it out by a single incision on the dorsal aspect, the knife having also been turned round the root of the finger; this however is a mere difficult operation than the former, but is nevertheless frequently preferred to it.

An incision is made corresponding to the course of the extensor tendon on the dorsum of the bone, and a ring incision is appended to it round the root of the finger, the sides of this wound are drawn apart at its carpal extremity; the surgeon gets his narrow knife inside the joint and turns its edge to the internal ligament which he divides; at the back the articulation is easily opened, and as in the former operation, the roots of the two metacarpals may be separated by pressing the point of the instrument between them; the little finger, with its partly loosened metacarpal bone, should now be bent towards the palm, by which the upper extremity of its memoarpal bone will be clevated, and the rencoming ligamentons connexion put on the stretch; by another teach of the knife, the root of the bone will be liberated—the operation may be completed by passing the knife under the bone upon which it is closely kept, the soft pairs all the while being hold well apart, and carryleg it enwards, to leave the part through the pulo, r helf of the ring incision around the root of the finger, the attachments of the soft parts at the side of the no tacarpal bone having previously been divided. In these operations, the extensor tendon should be pressed towards the thumb, and not divided by the longitudinal incision.

Bleeding is sometimes troublesome after these operations, and the arteries retracted into the dense tissue of the palm cannot always be secured by ligature, it is well therefore to allow the part to be expected for some little time after the operation; or should bleeding afterwards occur, to plug the wound with lint, and make pressure by a bandage, which may remain for some hours, as recommended by Mr. Liston.

An operation, more or less resembling the last of the two described as applicable in the removal of the little tinger with its metacarpal bone, has been proposed by Langenbeck in cases demanding the

Carpe-Met warpal Amputation of the Index, Middle, or Ring-Finger.

An incision made along the dorsum of the metacarpal hone is turned round the root of either of the above-named fingers; the soft parts are separated at the sides of the metacarpal bone with the point of the knife, and the sides of the wound at its carpal extremity, being drawn apart, the dorsal ligaments are cut, and the knife passed through those on the lateral aspects of the bone to be removed in this way the point of the knife may be got towards the palmar connections of the root of the metacarpal bone, which is the subject of amputation :-these being divided, its upper or carpal extremity must be forcibly elevated -the knife passed beneath it, and then carried onwards to make its way out by the ring incision at the root of the fuger-thus completing the operation.

Operations of this kind are seldom required, and it has been remarked by Mr. Liston, that they are more frequently talked of than executed on the human body. And here we might observe, that the directions for removal of parts, as generally given, are evidently adapted to supposed operations, performed on the same parts in the healthy state, but that the effects of disease are often such as to oblige the surgeon to modify the proceedings, so as to suit the operation to the percularities of his individual case.

Baying shortly noticed the carpal amputation of the thumb, of the little finger, and of the intervening fingers, we proceed to describe the

Carpo-Metacarpal Amputation of the Four Pingers.

Here a small flap is taken from the dorsal, but the principal covering from the palmar surface; but at the commencement of the operation, the knife is carried between the metacarpal bones of the thumb and foretinger, so as to separate the former from the greater portion of the hand which is about to be removed.

The roots, or carpal extremities of the metacarpal bones of the fore-finger, and little finger, are, in the first place, to be found, and their position and projections are such as to render their discovery tolerably easy: the former will be found more readily at the back the latter at the ulmar border of the hand. The hand is placed in a state of pronation,-an assistant holds it firmly, extending, at the same time, the thumb, and thus opening the space between it and the metacarpal bone of the foretinger, where the work of the knife begins. We suppose the operation to be performed on the left hand, and that the surgeon has already separated the metaearpal bone of the thumb, by the incision abovementioned. The knife is now passed across the roots of the metacarpal bones to be removed, dividing the integrament, the extensor tendons, &c. Λ thap, a little convex downwards, is thus formed -the way to the articulations being chared by the division of all fibrous bands in the neighbourhood, the surgeon bends the metacarpus forcibly towards the palm, and the dorsal ligaments thus put well on the stretch, yield to very gentle touches of the knife; by a little additional force the bones are now dislocated, the palmar ligaments then divided, and the knife carried close beneath the hones to be removed, prolonging the incision in the palm sufficiently to obtain a flap that will cover and protect well the carpal stump. The articulations which the bistoury has in this operation to traverse, may for practical surgical purposes be regarded as one which in its general outline is transverse, the main exceptions to this form being at its two extremities, for the root of the metacarpal bone of the fore-finger has a somewhat zig-zag shape, and that of the corresponding bone of the little linger, is joined to the unciform in a slanting direction, the inner or ulnar border of the joint being the highest.

It is a much safer plan not to dress the wound in these cases until some hours after the operation, as bleeding is now and then troublesome, even after the surgeon considers that he has taken great pains in securing the arterial branches.

Imputation of the hand at the wrist-joint

1s a very easy operation, and may be performed either as a circular or a flap operation.

The surgeon feels for the styloid process of the radius, and for the corresponding process of the ulna, and observes the fold of the integument at the wrist, or the faint line which separates the hand from the fore-arm.

The wrist-joint is higher than might be supposed at first sight, and when we bend the land backwards and forwards, for the purpose of discovering it, we must take care not to be deceived with regard to its position, by that degree of motion which the upper has upon the lower row of the carpal bones.

Circular Method.

An assistant retracts the integuments forcibly, another may steady the extremity of the fingers the knife is now carried round the wrist as close upon the hand as possible, and the integument thus divided, which being further drawn in the direction of the elbow, the surgeon, by another turn of the knife, divides the tendons before and behind the joint, which last is next traversed, and the hand removed. There is no great difficulty in hitting the joint in the last step of the operation, for if it position should not be observed without such a precaution, one or two movements imparted to the half severed hand will shew where the knife should

Flap Operation,

Performed more or less in the same way as in amputation of the fore-arm, a little higher up. A small catha is passed across the front of the joint. and is brought out upon the commoncement of the hand, dividing all the soft parts between the exterior of the fore-arm and the anterior aspect of the joint; in other words making a flap in this situation, which is slightly convex downwards. In making this flap, the surgeon will do well to get hold of the integument from the sides of the wrist as much as possible; it will afterwards be easy to include all the remaining integument and soft parts behind the joint in the next flap, which is formed in the same manner as the other, the knife passing lose behind the bones.

The two flaps being formed, it does not matter much whereabouts the point of the knife first enters the joint. If the hand be a little bent back, or in anatomical phrase, extended, the anterior ligament being put on the stretch will easily yield to a touch of the catlin, and the articulation once opened, we need not employ more words to shew how the operation should be completed, although it may be well to remember, that the lateral and anterior ligamentous bands are stronger than the corresponding structure at the posterior aspect of the joint.

By the method of M. Lisfranc this operation is very speedily performed. Having cut the two flaps, they are drawn towards the elbow by an as-The operator then applies the middle of sistant. the knife on the lateral ligament of the radial side, and forcibly carries the instrument through the curve of the joint, and thus separates the hand from the fore-arm; -a brilliant proceeding, but an operation the results of which are regarded as less favorable than those of the circular method.

Amputation at the Elbow Joint.

To discover the exact position and direction of the elbow joint is also not quite so easy as might, at first sight, be supposed. The surgeon applies the fingers of his left hand to the projecting tuberosities of the humerus, inside and outside; the joint, however, is not, as we are all aware, immediately below them; but if a line be drawn between their most projecting points, and we sup- of oval operation would be performed, and the soft you will have a tolerably good idea of the contour

pose a line in the same direction somewhat less than an inch lower down, we shall have pretty nearly imagined the position of the joint.

In Lisfranc's operation at the wrist joint, a knife may easily be carried across the articulation, and will readily enter at either side; not so with the elbow: on the radial side, the instrument enters at once, as there is ample space for it (during extension) between the head of the radius, and the corresponding part of the humerus; the approximation, however, of the ulna, and the corresponding trochlea of the humerus, is much closer; along with which the winding course of this side of the joint refuses easy admission to the knife.

Hence two practical cautions,-1st, to take care that we do not mount too high in the bend of the arm in cutting the anterior flap; 2d, that we do not attempt to open the joint by commencing on These are worthy of being rememits ulnar side. bered, although even Dupuytren could forget the former, and err as often in consequence.

Flap Operation.

The bend of the elbow is transfixed by a catho kept close to the fore part of the joint: it is earried downwards in front of the bones, and a flap of about three inches in length is cut from the floshy part immediately below the joint, which is sufficiently long to fold backwards, and cover the end of the humerus about to be exposed. The integument behind is now to be divided, on a level with the commencement of the first incision; the knife next enters the joint between the radius and humerus, where it is soon arrested by the ulna-The ligament at the uluar side of the joint may now be divided, and the fore part of the joint completely opened; next, the fore arm may be a little flexed on the upper arm, by which the olecranon will, as it were, be brought down, and the point of the catlin carried around it, will divide its ligamentous connections, and sever the tendon of the triceps, by which the operation is completed.

It is not difficult to enter the knife at the radial side of the joint at the same time that we divide the integriment at the back, and the surgeon may, if he think paguer, pass a saw through the olecranon, and leave its extremity attached to the tendon of the triceps. In operating on the right arm, the eathin may be introduced from within, outwards from without, inwards, on the opposite limb.

Circular Operation.

The integument is divided around the fore-arm, three finger. breadth from the joint, and then dissected upwards. The cathin is now passed around the limb, through the soft parts, dividing the tendons of the biceps and brachialis anticus— the anterior and lateral ligaments; the joint is foreibly luxated-the point of the knife carried around the olecranon, and the operation completed.

If the integument, after the first incidion, be dissected up as far as the articulation, and the muscles afterwards cut as high as the line of the joint, the humeral artery will be divided before its bifurcation, and the trouble of seeming bloodvessels abridged; besides which, the flap will consist almost solely of integument, which will be favorable to the future healing by the first intention; hence some surgeons give the preference to this mode of operating.

Amputation at the Sheulder Joint.

The arm may be separated from the trunk at the shoulder joint, in several different ways, as it is evident that the contour of the incisions for effecting this object might be very much varied, for if a circular incision were made around the arm near to the joint, and the integument sufficiently dissected up, the knife might be got into the jointturned round the head of the humerus, and brought out on the axillary side of the arm, and in this way, the limb removed: or, if instead of this mode of commencing the operation, which is the same as in the ordinary or circular amontation of the upper arm, the cuter half of the division in the integument should be carried higher than the inner, so as to make an oval section of the skinits upper extremity a little below the acromionthe lower at the inner aspect of the arm,-a kind

parts, from before and behind, afterwards united in one line on the external aspect of the stump. Again, the operation may be performed by making one flap of the deltoid, carrying the knife through its base near the joint, and cutting outwards in the direction of its insertion. Or in-tend of one flap, we may make two, --one from the outer and fore part, the other from the opposite a peet of the upper part of the arm.

The operation by the oval incision, however, before-mentioned, would be rather awkward of execution, unless a single and straight incision were added to it, going from the middle of its upper part towards the point of the aeromion, and this might be said still more of the circular incision; so that, in reality, the methods of operating which have been chiefly advocated .- are the single flapthe double flap, or method of Lisfranc, and a modification of the oval, or method of Larrey, although the circular operation, or method of Ledran, has been practised and praised by different surgeons-English, French, and German.

The flap operations are easier of execution, but the oval or circular methods leave better stumps hence some surgeons prefer the operation of Larrey to all the others which have been proposed; but it will be readily understood, that we are not often called to amputate at the shoulder-joint, except in cases where the neighbouring parts of the arm have suffered from the progress of disease, or are shattered by accidental injury, so that the method of operating will often, as it were be dictated to us by the state of the parts, or by circumstances over which we have no control; hence in cases where the integument, at any part near the joint, has suffered so much that it would be in vain to attempt its pressrvation, we must seek to cover the glenoid cavity about to be exposed, by a flap from an opposite aspect. In the

Single Flap Operation.

 Λ eathin is passed through the outer side of the arm, close upon the head of the humerus, carried downwards towards the insertion of the deltoid. and a flap of sufficient length cut from the body of the basede; next, the capsule of the joint is opened on the outer -ide, the point of the knife carried round the head of the humerus, which being set at liberty and dislocated by moving the elbow, the knife is again applied on its inner side and the limb separated from the trunk.

The first flap is raised by an assistant as soon as it is formed, who continues to hold it over the top of the shoulder, and the same assistant may, with the fingers of the other hand, seize and compress the artery in the axilla before the last stroke of the knile is effected.

Double Flap Method.

The first flap is formed in the same manner as the flap in the operation just described, save that the callin is introduced at a point nearer to the hinder aspect of the axilla, so as to make a flap in this direction, by passing the point of the instrument over the head of the bone, at the same time elevating the handle so as to get round the head of the bone easily, and complete this first transfixion at the anterior margin of the deltoid.

This tlap being raised the joint is freely opened, the arm carried across the chest, and the head of the humerus dislocated. The knife is next passed behind the head of the hone, and brought out through the remaining soft parts, so as to form a second tlap, in size corresponding to the first. When the second flap is being formed, an assistant follows the back of the instrument with his fingers so as to secure the axillary artery.

We have described the operation as performed on the left arm. When the right has to be removed, the knife enters at the anterior border of the deltoid, and passes on near the posterior margin of the axilla, the surgeon, placing himself accordingly. The length of the flaps in this operation must be regulated in some measure by the bulk of the limb to be removed, and the extent of the surface afterwards to be protected,

Oval Operation.

Imagine a longitudinal section (through the middle) of a pear with its foot stalk attached, and

of the incisions in this operation: the foot-stall: part of the section corresponds to the point of the acromion, the broad and rounded end passes under the arm. In the operation as performed by Larrey, the feet-stalk, or first incision, is a longitudinal section through the middle of the deltoid down to to the hone, commencing over the head of the humerus, immediately beneath the acromion, from this incision two others are carried, one on each side, which tend towards the inner or availary aspeet of the limb where they meet.

The first incisions in this way formed thier sides are forcibly separated by an assistant, the adhesions to the bone on each side having been cet five by the bnife, the surgeon next carries the catlin into the joint, which he treely opens, and then passes the instrument behind the dislocated head of the humerus to complete the operation in a line corresponding with the preliminary section Pry-isn, of the integument underneath. In the

Circular Operation.

breadth below the acromion, and the integument thus divided, is next dissected up, the surgeon now cuts obliquely through the delioid, divides the tendon of the biceps, and opens the joint, the head of the humerus being partially dislocated, the cuthin is passed behind it, and brought out inside to the seeds are included. Is I indicy therefore right? complete the operation.

Having already occupied some time in describin the amputations at the shoulder joint, this fertunate as the heavers, account of the circular method is made somewhat hert: but it is to be remembered, that the diffi culty of dislocating the head of the bone in this

operation is very considerable,

Some surgeons have recommended, instead of the oval-or what we have attempted to illustrate as the pyriform incision with the foot-stalk attached, an incision of the inverted A kind, the two free extremities being joined below by a curved incidion which would pass under the arm, the point of the V approaching the aeromion: the main ob icetion to this method is the chance of the bone projecting afterwards for want of an adequate

covering from the soft parts.
Sir Charles Bell, in his work on operative surgery, recommends us to be aided in this operation by assistants, stont and strong, capable of compressing the arrery above the claviele, and against the first rib (which may be done with the aid of a key or boot-hook, the end being coated with linen), and having sufficient surgical knowledge to manage the blood vessel as soon as it is divided, that the patient may suffer as little as possible from hæmorthageand this you may rely upon it is a very valuable caution; for I well remember, when very young, and not very strong, having to compress the subclavian artery with a key, and the fatiguing effort which it required, but no other assistant being present, I was obliged to prolong the exertion despite the inconvenience. In such a case, however, it is desirable to save one's strength as much as possible until the latter part of the operation.

During this operation the trank should be well stradied by an assistant on the opposite side, who holds a jack-towel which has been passed closely under the axilla of the affect d side, and two other good as-istants should also be present.

TO CORRESPONDENTS.

no . het a ay , de of the value of his remarks?

Argus we'les us a rable actule : Medica' Reform, a subject on which all where others or the present moment are of little us, are from a curve alone real rance adds seem until eq. F: this case is near t

melhe the jager.

The Crichton Institution, Dunafric .- Hr. Jaco to n out an article relating the roughly performance of Kary's large of "Race of Wal," by the me a commutes of this usyline. It is thing west of "to take and once is iting and the whit that food med the Letter of phousing recitement and the Letter plant was the printest wight ever real corne is to man. We ere glad to hear of the execution on I to dot on a gold on a periment, and M. R. C. S. completes that we or our aids have

Mr. Thornton's plaginrisms. We do not deny that the first opinions expressed leave the mutter unsettled as to who was the real plagiarist, for that question was not reacked till we came to the consideration of the facts, which all lut conclusively proced Mr. Thernton to be the gleaner. The word openly was merely used as intimating a remote possibility that Mr. Thornton might be able to allege something in I's detence we were not acquainted with. The offers made to us are very abliging, but we beg to decline them. We charve by the way, that the "Medical Garette" has innocently. published the deplorably incorrect case of Mr. Thornton, the reception of which we referred in our critique Mr. Luce, - H chair siven the unswer servial times

recently in our maties to correspondents. M.N.P.—Hibernicus—A Medical Reformer— J.H .-- An Enquirer - decland. The last correspondent is informed that we emourage no such Paul-

A Correspondent calls one attention to Dr. Lindley's assertion in his Introduction to the Natural System. the knife is turned round the arm four fingers that the fruit of the umbellifera is in no case dangerons, and to In. Persion's recent declaration before the Pharmacentical Society, that a gentleman was really poisoned by an infusion of anise, in which some seeds of conium maculatum were discovered. The estractum conii according to Paris is north more powerful when

The Hunterian Oration will be giren by Mr. Arnott on Monday next at 2 o'clock. Our readers will be as

THE MEDICAL TIMES.

SATURDAY, FEBRUARY 11, 1843.

Eripeie vitam nemo non hommi potest At-mortem ' Mille ad hane aditus patent.

As Sir James Graham is pledged to introduce his new Medical Bill early in the session, we hasten, before he stands compromised to a serious and ruinous defect, to invite him to a re-consideration of that part of his measure referring to one of the most practical of our grievances-Empiricism.

If we are to believe numerous concurring authorities - among whom is a recent Quarterly Reviewer-he proposes to content himself with restricting all public medical employments to the duly-qualified, stripping the unqualified of exemptions to serve as jurymen or parish-officers, and making their certificates useless in courts of law. If this statement were not authenticated, we should take it for the invention of a political enemy. As it is, however, did homeopathist, in wildest imagination, ever reach to such infinitesimal doses for lightest malady, as those prepared by the Home Secretary for the deadly gangrene, Empiricism? We regret to say it-but truth in an independent journalist must out—the malady our State physician would cure, he has caught, and the quackery he would suppress, is sanity, wisdom, to the quackery that pretends to its suppression. Sir James will restrict to us, public medical employments- but are they not so restricted already! Quacks shall serve as jurymen and parochial officers-but who shall be bettered by that but the quacks, whom, so serving, they may tayour! Their certificates shall not be taken by magistratesand what magistrate takes them now! If this be your discouragement, this your suppression of quackery, permit us frankly to its present impunity; for you do worse than leave wrongs as they are; interposing the law, you enact them a legalized standing, which gives them the gloss of right!

But there are reasons, we are toldgrave and convincing reasons-why the Profession is wrong, and Sir James Graham right. Some of our titled surgeons and physicians, who, despite their success, feel yet the rebellious remains of early salaciousness in the cause of a sly bit of quackery, and whose evil communications reach occasionally higher than the council board of a College, these have exercised, of late, no little ingenuity in the discovery of sage reasons why their amiable chere amie should remain unmolested under their unpublished protection. One of them has been fortunate enough to get leave to speak through the last number of the Quarterly Review, and as his argumentations are intended to halloo on the Home Secretary in his proposed course, it may, perhaps, be some little service to the public, no less than to ourselves, to give the singular and occasionally ambiguous text, the benefit of an clucidatory commentary.

The writer has three reasons why the suppression of quackery should not take place: it would be, first, impracticablesecondly, improper-and, thirdly, inexpedient. We are told, that on the occasion of a royal entry, a certain pragmatical mayor having to apologize for the nonprescutation of the city keys, and commencing a long categorical enumeration of the causes, with the declaration, imprimis, "there were no keys to present," was stopped with the good-humoured assurance that that cause proved, the rest could be spared. Now, though the impracticability of a given course, be, like the mayor's deficiency, a tolerably settling sort of argument, yet as we can have no objection to hear any still more conclusive, which the author may feel it necessary to add, we will, with our readers' permission, give our mayor of the Quarterly the liberty of going through the whole of his category seriatim :-

First,-We are convinced that the thing is impracticable. It may be made penal for a man to call himself a physician or surgeon, or apothecary, who has not obtained a licence; but how is he to be prevented from giving advice, and medicine too, under the name of botanist, hygeist, homcopathist? Or he may put doctor before his name on the door, and say, probably with truth, " I am a doctor, for I purchased the degree of doctor of philosophy for £5 at Heidelberg." Moreover, the experiment has been already made, and without success. The College of Physicians of London are aimed by their charter and Acts of Parliament with ample powers for the purpose, but they long since abandoned the exercise of them in despair; and in France, where the legislature have done all that they could do to suppress it, quackery flourishes as much as in any country in the world. But, secondly, even if the suppression of unlicensed practitioners were practicable, we are far from being satisfied that it would be either proper or expedient. If the art of hea ing had attained perfection, if physicians and surgeons could enre all those who done Mr. Fenishey what is a our demonstration of tell you, Sir James, that we prefer to leave it apply to them, we grant that the case would be

otherwise; but, as matters now stand, would not such a proceeding be a very tyrannical interference with the right of private judgment? Let us see how such a system would operate in a particular instance. $\dot{\Lambda}$ patient labours under an incurable disease. His ease is hopeless. His medical attendant complains in a court of justice, or some one complains for him, that the patient has placed bimself under the care of an unlicensed practitioner, who has never studied medicine, who treats all who consult him with the same remedies, and believes that most of the diseases to which mankind are subject arises from cows eating buttercups; and therefore he requires that the interloper should be punished. But it turns out that the remedies which this individual administers are innocent; and as to the theory of buttercups, it is as good as Cullen's theory of fever, and it can do no harm. It is a comfort to the patient to try this new scheme, and wherefore should be be prevented from doing so?

It is really something amusing, to see a medical man, and one, if we are well informed, of no mean standing among the ruling authorities of the profession, thus talking of such a thing as the impropriety of the suppression of quackery. Quackery dealing with human life, either for good or ill, can be a thing of no negative character; and he that declares its suppression improper, has done more than declare it no evil—he has put it in the class of good. In his creed of virtues, Empiricism finds a place as much as Patriotism: they may differ to him in extent, but in kind their qualities are the same. Now did the writer of this implied eulogium reflect that Empiricism, and the Profession he is a member of, being opposites, he cannot declare that the former should not be suppressed, without affirming that the latter should ! There can be no medium point for extremes: if the order of quacks be good, ours must be bad, and vice versa. The penalty of either's malpractice is pain or death to some one: the class of the two, therefore, whose opposed principles are wrong, lives by the injury, the assassination of the com-The question comes-Is that munity. class ours, or the Empiries! Whichever it be, it imports that that class cease to be.

But let us consider "the impracticability." The argument takes this form: "You may punish pretenders to regular titles, but not pretenders to irregular titles. You cannot even prevent the assumption of regular titles by pretenders. The College of Physicians, and France, have tried, and failed, to suppress quackery.—Ergo, &c." Now, all the assertions here made, are either wholly or partially false; and were they all true, they are yet considerably too narrow to justify so wide a conclusion. There are a thousand ways of suppressing quackery, besides interfering with quacks assumption of this or that name; and there are a thousand systems which might be introduced, besides those tried in London and Paris, which plainly owed their want of success to inherent deficiency. To give one plan-our own-Why shall there not be a broad legal distinction at once drawn between the class of Doctors and that of Quacks? Why shall not the real and the

counterfeit be distinctly badged by the State with the insignia of their distinction before the people? Why may not the quack be compelled to register himself as a quack, and—if he must be permitted to practice his nefarious calling-be at least obliged to buy an expensive license, yearly, from Government? Who does not see how the public badging would diminish the prestige of his reputation !-- how the annual tax would lessen the attraction of his calling? Why, further, shall not magistrates, and especially coroners, be endowed with powers of summary but moderate punishment, for every case where health or life may have suffered through malpractice? But we shall be told that all this, while it would clevate the high standing of the professional man, and lower the position of the pretender-while it would reduce quacks to the more respectable of their number, and terrify them into moderation and decency-would not totally suppress Empiricism. What evil is totally suppressed? 1s dishonesty, drunkenness, assassination? Suppression of quackery, like suppression of every other wrong, is but a relative term-and as we call him perfect who has least vice, we may call that suppression which exists in the smallest shape compatible with the exigencies or powers of a society which must always be, more or less, imperfect.

The failure of the College of Physicians, and the French Government, to root out all Empiricism, may be admitted: and accounted for by the clumsy machinery and limited powers by which they acted. But does any one doubt that the French laws, —imperfect as we know them to be, and as the Academy of Medicine has lately declared them to be-have stopped much Empiricism! A single reference to Paris and London, with one further thought to the extensive practice of five-sixths of our druggists, furnishes a ready answer, and makes us wonder how France could have been cited by a writer of ordinary reading or observation, as proof that laws do not avail in counteracting Empiricism.

The "impropriety" of legal interference is proved by this valuable argument: accomplished physicians cannot cure all patients; therefore, there should be ignorant quacks, whom curables and incurables may consult. And, in further support of this reasoning, it is affirmed that quacks are harmless-and that to prevent their practice is to infringe individual liberty. The plain analysis of the argument is its complete refutation. We have, throughout it, nothing but false facts and priceless boon. unsound logic. The non-curability of certain patients, by an accomplished practitioner. is an argument, a fortiori, against the usefulness of a quack. If the incurable cannot be made better, he can be made worse; and it is surely no unlikely thing that the ignorance which blindly rushes to do more for the disorders of so delicate and complicated a piece of machinery as man, than the most practised skill has been enabled to effect—will terminate its rash

meddling by leaving the derangement still more disordered. The writer, to acquire even a scintilla of force for his argument, must have two things believed, which are the very opposites to fact, -- first, that the consultants of quacks are all incurables; and, secondly, that all quacks are harmless. Is one word more necessary, to prove the exceeding absurdity which may be perpetrated for reasoning, by even a sober Quarterly Reviewer? If the writer be Sir Benjamin Brodie, as some assert, our pity for his powers of ratiocination turn into real alarm for his unfortunate patients. The plainest symptoms must be lights that only shine to mislead, to one whose psychical education leaves him so utterly incompetent to deal with the plainest and commonest reasoning data.

The author tells us, that to suppress quackery is to interfere with personal freedom. Of course it is. So is the suppression of thieving. So would be the exercise of the discretion of the Quarterly's editor, which would prevent the worthy writer's again befouling the work's pages with such inconsequential reasoning. But it would be a good interference: it would prevent quacks who are not "harmless," injuring curable, and killing incurable patients. It we were ill off for a proof of this, we should turn, oddly enough, to a part of the writer's own statements. He tells us:—

"A man may run the risk of ruining himself if he be pleased to do so, by embarking his money in a Cornish mine, but he must not enter into such a speculation with the money which he holds in trust for others. In like manner, each individual has a right to manage his own health in his own way, and to consult whomsoever he prefers about his own complaints; but it is quite different when he has to provide for the health of others"

And has not the State, as one of its highest duties, " to provide for the health of others, "-the others being the whole people?-and if, on that principle, the State be bound, as the reviewer states, to ward off empiries from soldiers, paupers, and felons, shall it take no pains in guarding that other portion of its subjects who are certainly not less worthy of special protection! But taking the depreciating term, money, as a point of comparison with health, does Sir Benjamin Brodie think that the State should encourage hellkeepers, pickpockets, swindlers? If not, on what principle shall it encourage quacks and charlatans? The one class of scoundrels are certainly not more dangerous to the valuable, than the other are to the

We would carnestly warn Sir James Graham against being misled by Court surgeons and physicians, who are too apt, in the glow of their young elevation, to overlook the useful, in their confused zeal for the respectable. It is a pretty and a genteel thing to say, "We have none of that vulgar narrow-mindedness of class which makes some of our brethren so intolerant of irregular competition:" but we would beg such liberal-minded and affluent prac-

titioners to remember, that though the ground, that empirical interference with the claims of an impoverished profession is wrong, be very tenable; our brethren, , with ourselves, mount to the higher position-that, however bad to the profession, it is infinitely worse to the public. It is on that ground, and that only, that we have felt it necessary to prove that that removal is not impracticable nor improper, but the contrary; and to call on Sir James Graham, it he wish for the shadow of success for his Bill, to pay no heed to medical advisers who neither know the public nor their own profession-and to do at least as much for the quacks of England, as Napoleon thought it politic to do for those of France.

MESMERISM.

WE are happy to be able to present our readers with the results of the maturest deliberations of the Lancet on mesmerism. The opinions of so high a scientific authority given at two distinct epochs, cannot but throw a light upon this once very obscure branch of psychical medicine, which will leave little for further researches to achieve.

LANCET, (First Serious Notice), Oct. 29, 1842. Mesmerism is too gross a humbuq to admit of any further serious notice. We regard its abettors as quacks and impostors. They ought to be hooted out of professional society.

LANCER, (Second Serious Notice), Feb. 4, 1843. Of Mesmerism we are too sick to descant upon it at any length, and there are but few members of the profession so utterly devoid of reasoning power as not to know that the Miss-MERIC PHINOMENA, in so far as they are true, form merely a beterogeneous mass of materials for the study of psychical medicine, and are wonderful (phenomena!) only to those who are unacquainted with the aspects of disease, When we continually see patients labouring under hysteria, and analogous forms of nervous disease, falling suddenly into various states of stupor, trance, and convulsion, without any assignable cause, why should we wonder at similar states being induced by so slight a cause as the pawing of a mesmeriser? And, knowing. as we do know, the remarkable power of habit in facilitating the repetition of nervons actions which have once taken place, why should we wonder that an effect which, a few weeks ago, it took half an hour's handy-work to produce, is now occasioned by two minutes' application of the same graceful process? In these things there is nothing either new or wonderful.

It is truly distressing to witness such an exhibition of low-bred and un-cientific lunacy as is here displayed, in a journal, which, though cast off, and on the streets, still pretends to be connected with a gentlemanly and educated profession. The gross humbug of four months since, unworthy of serious notice, whose abettors were to be hooted out of society as impostors, is now the admitted source of phenomena-the creator of a mass of materials for the psychical philosopher! To crown the heap of absurdity, we are told that stupor, convulsions, trance, produced in two minutes by the mere movement of a second party's fingers, (those results which, from their incredi-

so gross, as to admit of no serious notice) are phenomena, it is true—but phenomena neither "wonderful nor new!" Lancet knows of phenomena not wonderful! In the same article we find the ingenuous editor expressing his "belief that the information of the medical profession generally, on matters of natural science, was very little greater than that of the people at large; adding, this is an extremely humiliating fact! And what a happy illustration of its truth is furnished by the editor! How happy must the worthy scribe be, while writing on professional ignorance and incapacity! He has his practical and undeniable proof always conveniently near at hand! But, with such exhibitions, is it wonderful that the house of Longman and Co. sell less than one-third of their former number of Lancets, or that Hodges and Smith, of Dublin, sell seven or eight copies in the place of five hundred! Quem Deus vult perdere de-

CASE OF PUERPERAL CONVULSIONS ANTECEDENT TO, DURING, AND SUB-SEQUENT TO LABOUR.

By Charles Clay Member of the Royal Callege of Physicians, London, College of Sorzeon*, Edinborgh, and Lecturer on Medical Jurisprudence and Medical Police, P.ecadifly, Manchester.

Puerperal convulsions are, at all times, cases of considerable interest to the medical reader; the following one, though it offers nothing very remarkable, yet may serve to encourage junior members of the profession, and convince them that such cases cannot be treated too energetically to ensure a successful result. Mrs. Pomfret act 21, first child, asthmatic tendency, short in stature and rather thin, commenced having slight labour pains on the Monday morning, at the early hour of I o'clock, Jan. 23, having experienced a slight fit the day before, which did not alarm the family so as to take any very particular notice of it, considering it hysteric; severe purging followed the fit, and as before stated, slight labour pains took place soon after midnight. visiting her I made an examination, and found the os nteri dilated to about the size of a shilling, thick and rigid, membranes as yet entire, pains trifling but frequent, with very short intervals between; after encouraging my patient Heft the room, promising to return in about an hour, ordering a little gruel. About an hour after I ascertained the progress; the os uteri dilated to little more than half a crown in size, still rigid and thick; pains frequent, with scarcely any intermission. I waited for halt an hour longer, and determined to bleed if the progress was not more satisfactory; at the end of that time I was summoned hastily up stairs, my patient being in a strong convulsion; Topened a vein in the arm, and abstracted as rapidly as possible about twenty five ounces of blood, when the fit abated. The os uteri was but little altered from last report. Pulse fell considerably after bleeding, and became very soft; I therefore deferred delivery, in the hope no further unpleasant symptoms would occur. The nterine pains had now left her entirely, consequently little additional alteration in the os uteri, within half an hour of the bleeding, however, another convulsion came on, no further time was to be lost, I abstracted about fourteen ounces of blood, and then proceeded to deliver, first emptying the bladder by the catheter. On examination I found that during

tured, and the face presented. The wild and incoherent expressions, and turbulent conduct of my patient, convinced me every moment was big with importance. I endeavoured to pass the long forceps, but the difficulties attending their introduction occupying too much time, I determined on lessening the head, but had the mortification of finding my perforator missing from my obstetric case; situated thus awkwardly I commenced operations with the crotchel, fixing it as firmly as I could in the cheek bone, and after severe exertion succeeded in getting the head partly into the pelvie cavity, during which time two convulsions occurred, requiring the loss of about twenty ounces more blood. By this time my hold with the crotehet had become very precarious, I sent to a medical gentleman (living close by) for a perforator, but the messenger mistaking the name of the instrument, the gentleman arrived himself, to render me what assistance he could, of which I was glad to avail myself from the unruliness of my patient; the forceps were now applied, and the head finally delivered; she was now allowed a few moments rest before the body of the child was born, and in about twenty minutes after that the placenta came away easily. Λ bandage was applied, the pulse soft and compressible I now retired to wash, but was immediately sent for, another strong convulsion had seized her, the vein in the arm was again opened, and about eight ounces of blood with difficulty abstracted, when the fit left her, and after a considerable lapse of time nothing indicated a return of the spasm; face very pale, pulse languid, breathing free; I left her with instructions how to act if any fit returned, and ordered her half a drop of croton oil, in a pill of castile soap, every two hours, until the bowels were well eleared out: it was now about 7 o'clock v. M. I had searcely, however, arrived home, before I was again sent for; the fits represented as more violent; she was in one when I arrived; I endeavoured to get more blood from her, but could not obtain more than six ounces. The spasm however abated. An enema, with ol. terebinthing was administered, and a second in half an hour after the first; soon after the bowels were relieved of a large quantity of dark grumous thid, mixed with blood, with little or no small of faval matter. I continued in close attendance till half past 2 r. M., up to which time she had had sixteen convulsions since the delivery, two during actual delivery, and three previous. During the forenoon she lost about sixteen onnees more blood. From half-past 2 r. M. no further convulsions took place. At half-past four she had slept a little, and awoke conscious for the first time, expressed herself perfectly ignorant of all that had taken place even from the Sunday afternoon when the first attack was observed, thus accounting for her unruly conduct. At ten P. M. she had again rested a little, felt free from pain, had voided urine, and had had a copious motion of a more natural smeil and colour; no lochia. Tuesday, nine o'clock v.m., no return of convulsions, felt comparatively well, had rested well, no lochia; six o'clock P. M., bowels not moved, pulse rising, face slightly flushed, mine high coloured; ordered a saline purgative draught, no lochia. Thursday, quite as well as could be expected, bowels moved. Friday, remained well. Saturday, continues well. Sunday, the same. Monday, the same further close attendance nunecessary.

OBSERVATIONS.

The quantity of blood taken in these cases is often enormous; in the present about ninety ounces proving not only that an additional quantity is in the system during pregnancy; but bility, were, once, imposture and humbug the last convulsion the membranes had rup- also that nothing less than the most extensive

bleeding offers any chance of a favourable 1csult. The absence of lochial discharge is not uncommon where bleeding (on an extensive scale) has been resorted to. Convulsions commonly give way on the birth of the child, it being rare that they extend to the three periods here stated. In conclusion, a few words may not be amiss on the cause of puerperal convulsions, on which authors differ considerably. I think the immediate cause appears to be, that more blood is contained within the system during atero-gestation. The aterus has the character of a reservoir, by its great vascularity; and when that organ is in a state of almost constant contraction, the extra blood rushes into the general system, and the brain, as the most sensitive organ to any increase in its circulating system, first exhibits its effects in the form of convulsion from compression; and the stertorons breathing subsequently, sufficiently confirms it. When there are long intervals between uterine pains, the blood re-assem bles in the uterine mass, and no mischief ensues: when once the mischief has been produced in the brain it is not immediately relieved, though uterine contraction may be absent, as in the case just related. First labours are most liable to convulsions, and least liable to hæmorrhage, from the greater energy displayed in uterine action. On the contrary, after many labours, they are most liable to harmorhage and least to convulsions, from the want of a proper degree of uterine energy. The absence of after pains in general, in first labours, is accounted for by the energetic contraction immediately after the completion of labour, whilst the almost certain occurrence of after pains, in subsequent labours, shews that uterine energy is wanting, and the uterns is, therefore, longer in completing its contracted state after labour.

LECTURE ON STARCH.

Delivered January 27th, at the Royal Institution. By Professor BRANDE, F.R.S., &c. &c.

The lecturer commenced by stating, that the old mode of preparing starch was by steeping grain in water until it became soft, when it was subjected to pressure, and a milky juice exuded, which passed into water, and gradually subsided. The precipitate was starch mixed with impurities.

If grain be powdered, that is, reduced to the state of flour, and washed with water, it will be separated into two leading parts: that which is removed by the water, although not soluble in it, is starch; the other principle is gluten. It possesses the property of clasticity, and aids materially in the manufacture of bread, by causing it to rise. There are some other matters in wheat of minor importance. Wheat contains—

Starch	,					70.84
Gluten						
Sugar			,			4.9
Gum						
Water		٠				8.0
						190.14

There are a number of interesting particulars connected with gluten, which have been recently investigated,—one of the most important of which is, that its ultimate composition is identical with that of animal fibre. When it enters into fermentation, it passes readily into the putrefactive stage, on account of the nitrogen it contains. When rabbed with soda or potass, it gives out ammonia. Its composition is as follows:—

		Marcel,			Zenneck.
Carbon .		55.7			45,80
Hydrogen		7.8			3.37
Oxygen		22.0			33,33
Nitrogen		H.5			20.50
	_			-	
	ì	100.0			100.00

It is a very common, in fact, almost a constant ingredient in many vegetables, which consequently form fitting mutriment for grammivorous animals. It dissolves readily in weak alkaline solutions, from which it is precipitated by acids. Certain acids easily dissolve it,—among these is vinegar, or the dilute acetic acid. In either case, if the process be carefully and properly effected, the starch remains unaffected.

Starch is now prepared in the following manner:—the wheat is ground into flour, mixed with water, and fermented. The liquor becomes sour, either acetic or lactic acid forms, by which the gluten is separated, and partly dissolved. fecula is then washed in hair-sieves to separate the bran, and afterwards allowed to subside, dirty liquor is next poured off-the serum scraped off the deposited starch, which is washed, and again strained through a fine sieve, and purified, The next process is, that of stove-drying, after which the seum is again removed: it is then boxed, and again stove-dried. On the completion of the process, it is no longer an homogeneous mass, but when a paper is opened, it breaks into columnar pieces, exhibiting a tendency to crystalization.

In this process, the object to be attained by inducing fermentation, is the removal of the gluten. An acid is formed, by which it is in part dissolved, the other part being precipitated upon the starch, from which it is removed by scraping.

Starch, when thus prepared, is white, and is coloured with cobalt, or indigo blue, for the market, and for the various purposes to which it is applicable.

In the process for obtaining starch, which has been just described, wheat only can be used, and large quantities are annually employed for that purpose. Mr. Jones has taken out a patent for obtaining starch from rice; by effecting which a double object is gained, - by increasing the demand for rice, its cultivation is necessarily advanced, while the more valuable grain previously used is economized. The theory of his process consists chiefly in the separation of the gluten-not by fermentation, and the formation of an acid, but by means of a weak alkaline solution. The rice which is employed is that called Patna rice. It is impure from adhering substances, and from a little lime which is always added, to prevent injury by in-To get rid of these, the rice is dusted, and steeped in a weak solution of caustic soda. The success of the process necessarily depends on a due adjustment of the strength of the alkaline solution. Mr. Jones prepares it with 200 grains of caustic soda to the gallon of water. rice is then rendered softer and whiter, and can easily be crushed. It is then ground into powder. This first application of the alkaline solution removes some gluten. The powder should then be mixed with a fresh alkaline solution, which readily dissolves the gluten. It should be steeped for 21 hours each time, and on the second occasion afterwards allowed to deposit. A very curious circumstance now takes place: there are two distinct sediments, the nature of the first is not fully understood; it is supposed to consist of fibrous matters, and is quite distinct from the starch which falls gradually on The starch is collected, washed, and boxed, in the usual way; the mass is dried to a certain extent on porous brick or chalk, and then stoved, when a crust forms on it, which must be scraped off. The mass is next put up in paper, and then resembles that procured from wheat. It is white also, and is colored precisely as the wheat starch, On opening a paper, and breaking the mass, it separates into columnar pieces, which have their bases externally, and appear to shoot towards the

The old and new processes differ in no case more than in the mode of removing the gluten. In the one it is effected by fermentation; in the other, by means of an alkaline solution. The chief advantage consists in the time saved in not waiting for the fermentative process, and in the economizing wheat by the substitution of rice.

Having thus got rid of the principle containing nitrogen, we shall find that starch consists of carbon and the ultimate component of water,

WI	icat-stare	h. A	rrow-ro		Potatoc - starch.
Carbon			44.40		11.25
Water	57.20		55.60	• • • •	55.75
	100.00		100,00		100.00

There are several varieties of starch, which are used as articles of aliment. Among these are the different forms of sago. The granulated form of sago is entirely artificial—it results from its mode of preparation. Sago is obtained from the pith (improperly so called), i. e., the fibrous matter in the centre of certain palms. This material is ground up, and washed in cold water, by which the sago is extracted from the pith, and afterwards deposited. It must be obtained before the fruit is formed, as, otherwise, a large portion thereof is extracted for the purposes of natrition. From five to six bundred pounds weight have been procured from a single tree.

The other varieties of starch are, the Otaheite sage, or arrowroot, which is prepared by the natives converted by the missionaries; the Tous lessances, prepared at St. Kitt's, from the cauna-coccinea, arrow-root, the Portland arrow-root, from the aram maculatum, the Brazilian arrow-root, from the Jatropha manioe, and potatoe starch. There is an article sold as maize, or Indian corn starch, which is nothing else than potatoe starch. This latter is obtained by grating the potatoe, and washing it in water, when the starch will be removed, and deposited.

ren win de temosea, and deposition.	
100 lbs. of potatoes will yield in the month	rol
August 10 lbs. of starch	
September $14\frac{1}{2}$ do. do.	
October 14} do. do.	
November	
March	
April 13; do. do.	
May 10 do. do.	
00 parts of potatoe contain, in the averag	e,
Starch	
Gum	2
Fibre	7
Water 79	6

Total.... 100
The chemistry of starch has assumed, lately, a very important aspect, as it seems to be the first form from which the other substances of the plant are produced. Starch is not solable in cold, but it is so in hot, water. In water at a temperature of 160 deg., the globules break down, and a part is dissolved in the water, the remainder forming a gelatinous compound. By long boiling, the whole is dissolved. The action of iodine upon it constitutes a very valuable characteristic, by which it can at once be distinguished. A very weak solution of iodine will impart a blue tint to starch, and an iodide thereof is formed. If, however, the starch be dissolved in an alkaline solution, instead of water, the blue color will not be produced, and the blue tint of an already formed iodide of starch will be destroyed by the addition of an alkali. lodine, to act thus on starch, must be in a free state: if the hydriodate of potash (iodide of potassium) be added to a solution of starch, no apparent effect will be produced; but if, with this, some solution of chlorine be then mingled, the iodine is set at liberty, and its effects on the starch are speedily visible. This may be exemplified by exposing a paper, written on with a mixture of starch and hydriodate of potash, to the vapour of chlorine. The letters which, previous to the exposure to the gas, were totally invisible, soon The blue color of a solution of become legible. starch and free iodine, disappears on the application of heat, and returns as the liquid cools, These tests may be similarly applied for the detection of iodine, the starch in solution being added to the suspected liquids.

Under certain circumstances, starch appears to be the source of the other vegetable products; at certain periods, there is pent up in plants a large quantity of starch, which, in process of time, is called upon, and used in the formation of gum, sugar, woody fibre, &c. These processes can be imitated by art: by a high temperature, starch can be converted into gum; here, in London, this process is carried on, and the resulting article is

sold as British gum; in Paris, it is called dextrine and is used as a substitute for gum-arabic. If the gum thus produced be boiled for a long time, with a very weak acid, it will be changed into sugar,and by analyzing these, and woody fibre, they are all found to belong to the class of compounds of carbon and water; so that all that is done in the operation of the various changes previously enumerated, is, the adding a pertion of water. These processes are also effected in brewing. In the preparation of malt, a substance called diastase is produced, which converts starch into gum, and then the gum is changed into sugar by fermentation with heat, to the formation of sweet-

The ugar, thus produced, is not the crystalline variety, but that known as the grape-sugar.

Potatoe starch is very cheap; and there is now a large manufactory in London where it is converted into sugar, for the purpose of adulterating the moist sugars. It is possessed of a certain degree of sweetness, but is weaker than cane sugar, and more is consequently required to effect the desired purpose.

MR. THORNTON'S PLAGRARISMS.

To the Editor of the 'Medical Time at

S1R,-In your spirited expose of Mr. Thornton's literary delinquencies in your last number, you omitted to point out his more recent appropriation of Mr. Yearsley's lan-guage and opinions. The identity of the cases lately sent to your journal by Mr. Thornton, and those related by Mr. Yearsley in his work "On the Enlarged Tonsil and Flongated Uvula" (barring on behalf of Mr. Yearsley the distorted and garbled condition in which you got them from Mr. Thornton) is most striking. Permit me to make it manifest to you. In your last number but one (Jan. 21) appears the following case .- In Mr. Yearsley's work, published some months ago, you will find the passages quoted, at the pages and lines indicated in the margin. May I beg that you will cause the quotations to be placed side by side?

Enlarged Tonsils affect- Extracts from Mr. ing the Voice and producing Deafness, Successfully Treated, by W. Thornton, Army Surgeon, M.R.C.S.L. (See Med. Tim. Jan. 21)

A young gentleman residing in London, of strumous constitution, nine years of age was brought to me, delicate and pale.

He complained of distressing symptoms such as contirmed tonsillary disease can alone produce.

His hearing defective, the voice thick and nasal, and the articulation so indistinct, as to be almost unintelligible to strangers.

I prescribed frictions of the cintment of icdide of mercury upon the external fauces, and small doses of iodide of potassium dissolved in dec. sarsæ, concent, inter-

Yearsley's work "On Enlarged Tonsils and Elongated Uvula, &c. —page 72

"M. A. C. a girl of strumons constitution, fourteen years of age was brought to me, pale, weak, and of stunted growth."

"She complained of a variety of painful and distressing symptoms, such as confirmed tonsillary disease can alone produce."

Page 79, line 22. " The hearing was extreucly imperfect, the voice thick and nasal, and the articulation so indistinct, as to be almost unintelligible to strangers."

The identity of treatment is not a little remarkable. At page 44 of Mr. Yearsley's work be says, "When debility is present, a powder composed of calumnally, also a rhuburb ba, sesquicarbonate of

aperiont administered twice a week. A tonic powder composed of carbonate of soda, rhubarb and calumba given alternately with the hydriodate of potash. The topical treatment of the tonsils were argentum nitratum applied by a pencil brush three times a week. In the conrac of a week, the tonsils felt quite soft, and began to diminish very rapidly; they were reduced to their natural size. I was anxious to give these remedies a fair trial before I had recourse to excision.

The effects of the combined treatment were most gratifying, and all the impeded functions were gradually restored, and the general bealth improved, and cured in the course of a month!!!!

The persevering medical treatment and dietetic restrictions are of paramount importance in the management of enlarged tensils, especially when they occur in youth.

When these remedies fail, it i only then necessary to resort to the operation, which is safe and painless.

Now, Sir, I think you will admit that this extraordinary mode of fabricating a case is without a parallel in the annals of medical literature, and not doubting that you wish to do justice between man and man, I trust that you will give insertion to this communication, in your forthcoming number.

I have the honour to be, Sir, your obedient servant,

PERISCOPE OF THE WEEK.

PATHOLOGY OF CHOLERA.—Dr. Fife of Newcastle states it his belief, that the heart and lungs being mainly influenced by the same system of nerves, are in cholera simultimeously involved, the morbific impression whatever it may be being made on that part of the nervous system. The condition of the blood also, is perceptibly changed, both physically and chemically. Drawn from a vein it exhibits a dark tarry appearance, and flows very slowly, owing to diminished fluidity, and the small proportion of serum it contains; which deficiency clearly arises, says Dr. Life, from the large quantity poured off by the intestines-an effect inattributable to mere increased secretion from the alimentary canal. An increased quantity of mueus is certainly discharged, but the in-

equal parts, is the est combination that can be given." At page 15. "Occasionally great benetit accrues from alternating the use of the tonic powder with the hydriodate of potash."

It appears to have answered Mr. Thornton's purpose to cause the arg. nit. first to soften the tonsils, and then reduce them to their natural size. Here we find him at variance with Mr. Yearsley, who declares, that the arg. nit, will not reduce enlarged tonsils.

Page 73 line 18, "The effects of the combined treatment were most gratifying. Page 72 line 8. All the impeded functions were gra-dually restored."

I have looked Mr. Yearsley's book carefully through, and caunot find that he ever "improved and cured de general health."

The two concluding sentences may be found at pages 43 and 47, omitting the words . the persevering." In the original it runs thus :--" medical treatment and dietetic restrictions are of paramount importauce in the management of large tonsils, especially when they occur

"When the means now recommended fail to reduce the enlargement, it is necessary to resort to excision."

in childhood or 'vouth."

soda and rhubarb ni crease bears no proportion to the immense quantity of serum and water in the evacuated The analysis of Dr. Shaughnessy matters. and others, have proved that the blood in che-Iera is invariably deficient in its soluble saline, and aqueous components. Doubtless, the morbid absence of these will account for the remarkable- we had almost said miraculouseffect of saline injections in restoring the powers of the patient in cholera, though this restorative effect is but temporary.

STYRACINE.—A crystallisable matter was discovered by M. Bonastre in storax, to which he gave the name of styracine. The following is the process to obtain it with facility :- The storax of commerce should be treated with cold hydric aether, which is to be poured off after several day's contact, and the filtered liquid set aside for spontaneous evaporation. The dried residuum is then acted on by boiling alcohol at 40 deg., and the filtered liquid also set aside for spontaneous evaporation; when about threefourths have been evaporated, the remainder is poured off, the crystals adhering to the sides of the capsule are washed with a little cold alcohel, and dried in joseph paper. The styracine may be obtained properly crystallised, and sufficiently pure, by being dissolved again once or twice in boiling alcohol at 40 deg. It may aslo be obtained by treating the storax several times with alcohol of commerce, allowing part of the liquid to evaporate each time spontaneously, and pressing the matter left between leaves of filtering paper, &c. But greater difficulty is always experienced by this process in getting rid of a green coloring matter, which always stain the crystals .- Styracine presents itself in the form of small needles, almost always agglomerated, of a very white color, without any sensible savor, and of a light, agreeable, balsamic odor. It is completely insoluble in cold and boiling water; it floats on the latter in the form of oily drops, which have a greater degree of consistence on the cooling of the liquid. Alcohol at 33 deg. dissolves very little, but it is more soluble in alcohol at 40 deg., and still more so in æther. Its alcoholie solution does not redden litmus paper; the addition of water render it milky. Concentrated ammonia has not any action on it, nor is it soluble even in strong solutions of potass or soda. Cold sulphuric acid carbonises it; the reaction is still greater if heat be applied, Hydrochloric acid has no influence neither when cold nor hot. Nitrie acid transforms it into a very friable yellow matter, without any sensible taste, and a very marked odor of bitter almonds is generated, from which it is probable that styracine contains some cynnample.-M. Lepage gives the following as the result of the analysis of purified storax: - A neutral crystallisable resin, a green coloring matter, benzoic acid, and perhaps cinnamic acid.

ALBUMINATE OF IRON.-This preparations better known in France than England, is usually prepared by the following method:-Albumen, or white of eggs, is diluted with distilled water; the mixture is filtered, and a solution of persulphate of iron is added until precipitation ceases, the deposit is then washed and dissolved in alkalized alcohol. It is very evident, however, that this solution does not answer to its name, and in this state, from the amount of alkali it contains, will prove untit for administration, in many cases where chalybeate tonics are indicated. It has been my endeavour to remove this objection, and after some experiments for that purpose, I find the solution of albuminate of iron is best made by dissolving its hydrous oxides in the newly diluted and filtered wlute of egg, which

Caustic petassa must be used.

takes up a considerable portion of both the freshly precipitated protoxide and sesquioxide. The liquid may be filtered, and will be found by tasting to contain a large proportion of metal. In the case of the sesquioxide in particular, the solution will keep for some time without decomposition, and its permanence may be further increased by adding a little alcohol, with which it will mix without precipitation. In this respect it resembles many other preparations of the same oxide. I have now before me two four-ounce phials of this preparation-the one with spirit, the other without any. The simple solution was made about ten days since and placed in a temperate situation, loosely corked, for the purpose of ascertaining its conservative powers. It is barely so clear as it then was, but differs in no other particular. The other phial, to which a little alcohol was added, has kept nearly three weeks without any visible alteration. When tested for iron, they both yield precipitates as before. It may be further remarked, that this preparation is compatible with caustic solution of potassa, and no doubt the other alkalies and their carbonates. As a therapeutic agent, the albuminate of iron is highly spoken of by M. Lassaigne and other high anthorities, who recommended it sa preparation especially adapted by its nature, on theoretical grounds. for combining with the tissues of the body. It will no doubt, ere long, take a prominent situation mong the most esteemed of our chaly

MARKING INK THAT REQUIRES NO PRE-PARATION.-Mr. Rowland, of Liverpool, gives the following formula as of very superior merit :- B. Argenti Nitratis Crystallorum, jiij.—Liquoris Ammonia fortissimi, jij. Solve. R. Cupri, 5ss.—Acidi Nitrici, q. s. Solve, tum adde Liquoris Ammoniae fortissimi ad saturationem.—B. Pigmenti Indici [vulgo Indigo], gr. iij.—Levigatur cum Aqua Destillata, 5i. et adde Carbonis Puri, gr. vi.—Pulveris Gummi Acaciæ, 5i. Mix the whole of these ingredients together, and add a sufficient quantity of ammonia to form a bright mixture, and when a gentle heat has been applied to drive off the excess of ammonia, the fluid will be ready for use. He adds that "the combination may be more curious than chemical, but I have found that the copper exerts a great influence over the silver in preventing its liability to blot when written with. It is, however, necessary to observe, that although the proportion of ammonia should be sufficient to keep the fluid clear, yet there must be no uncombined excess, and I find the best method after the ingredients are mixed, is to put the fluid in a small evaporating dish over a lamp, and keep up a gentle heat for ten minutes, to disengage the free amnuonia.

USE OF THE COLUMN ARBORDSCENS.-Dr. Colla attributes to this plant contra-stimulant purgative properties, and has derived advantage from its employment, especially in cases in which it was necessary to purge patients whose stomach: were refractory to drastics, and whose constitutions were enfecbled, and when it was necessary not only to free the intestinal tube from it contents, but also to strengthen it. The analysis of the fresh leaves of the coluted arbores ens gave albumen, a bitter substance of a resinous nature, tannin, malie acid, a yellow coloring matter, a green coloring matter (chlorophylle) a gunnny substance, malate of lime, chlorides of calcium and potassium, and sulphate of lime. This plant readily yields many of its principles to water, at all temperatures; but the use of the leaves without heat is preferable, or, better still, the tineture arising from the lixiviation of the powder. The aqueous decoction of the

leaves appears to be very active. The plant does not contain any alkaloid to which its powerfully bitter taste and eathartic action can be attributed; but there is a bitter principle, of a resinous nature, similar to that of rhubarb and other plants, to which this action is owing. The absence of alkaloid from the colutea makes this plant resemble senna, whose purgative action is not due to a vegetable alkali, but to a mixture of deliquescent salts, bitter resin, and coloring matters. Finally, the infusion and the aqueous tincture, made cold, contain the resinous principle, separated from the gummy matter, which accounts for the greater activity of these preparations.

NEW TREATMENT OF ITCH, BY DR. DORN-BLUTH. - The patient must first, at night, cleanse the whole body by means of careful ab-Intion with a warm solution of green soap; then rub with the following liniment: - R. Black soap, 125 grammes.—Powdered root of white hellehore, 60 grammes.—Warm water, q.s.—M. and F. S. A. a mixture of syrupy consistence. This liniment is applied with the palm of the hand, or by means of a brush, and care should be taken to spread it over all the parts of the body which present the slightest traces of exanthemata, especially on the articulations of the four limbs, on the hips, the back, and the alidomen Moreover, the force of the friction ought to be proportioned to the degree of sensibility of the skin. As soon as the rubbed parts commence, after the second, third, or fourth application of the remedy, to redden and become the seat of a burning sensation, instead of the itching which was previously felt there, and when no more pimples are seen to appear there, the application of the liniment is ceased. The day after the last friction, the whole body is rubbed with 125 grammes of black soap, then earefully washed with warm water holding in solution the same quantity of the same soap. It is only necessary afterwards to give clean linen and fresh clothes; the old ones must be submitted, before being again used, to washing and disinfection with sulphurous acid gas, hecause, without this precaution, they might reproduce the disease. Very soon afterwards, the skin dries and scales off. In this way cure is obtained in six or eight days, without leaving any bad consequences. With this mode of treatment, there is no necessity for resorting to any internal administration of medicine: Dr. Dornbluth, who at first prescribed medicines to be taken internally, was ultimately convinced of their utter inutility. Dr. Dornbluth has cured about six hundred individuals of all ages, by following this topical treatment, and he regards it as preferable to all others for the following reasons: -1st. It certainly cures the itch in the shortest possible space of time, and without giving rise to any bad symptom. 2nd. It has the valuable advantage of not betraying, by its odour, the nature of a disease which it is always important to conceal; and in this respect it has a marked superiority over the sulplurrous preparations, &c. 3rd. Finally, it has the advantage of being very cheap.

Ferrigins.— Dr Pitschaft, of Baden, prescribes iron in the following form in the treatment of chlorosis:—It. Klaproth's ethereal time ture of acetate of iron, S grammes.—Tincture of vanilla, 30 grammes.—Tincture of orange peel, 30 grammes. M. S. A. Twenty drops, in a teaspoonful of water, every three hours. During the use of this medicine, it is advisable continually to administer a tonic purgative composed of aloes and rhubarb. In some cases of cyanosis in adults, Dr. Pitschaft has employed, with much advantage and with great relief to the patients, the following mixture,

but by continuing its use for a long time:—R. Klaproth's ethereal tincture of acetate of iron, 1.5 grammes.—Tincture of digitalis purpurea, 8 grammes. M. S. A. Twenty drops every two hours in a teaspoonful of sugar and water. Morcover, the patients want to go every day to the water-closet, and it is advisable to watch them in this respect. The same practitioner considers carbonate of iron, associated with the extracts of bitter plants, one of the best medicines that can be employed in chlorosis; if the patients complain at the same time of very violent palpitations, it is as well to join with it small quantities of digitalis.

HYDRATED PEROXIDE OF IRON.—Mr. W. Proctor, jun., in the American Journal of Pharmacy, gives the following conclusions:- That hydrated peroxide of iron, even when kept under water, gradually decreases in its power of neutralizing arsenious acid, -2. That if kept in the form of a thick magma, it will retain its properties longer than when mixed with much water .- 4. That this decrease in power is probably due to a change in the relative proportion of the oxide, and the water chemically combined with it, as well as to an alteration in its state of aggregation .- 4 That from the experiments of Otfita, and others, the dry hydrated oxide possesses the power, to a considerable extent, of neutralising arsenious acid, and it should be used in the absence of the moist and recent preparation .- 5. That hydrated peroxide of iron may be obtained in a state fit for use in ten or tifteen minutes, by using a solution of the persulphate of iron. And, lastly, that the recent oxide should be used in all cases where it is attainable, in preference to that long kept.

DIABETES MELITUS CURED BY HYDRO-CHLORIC ACID. - (By Dr. Gennaro Festeggiano.) -A seaman, after remittent fever, with gastrie and rheumatie complications, became affected with an increased flow of urine, which gradually assumed the character of Diabetes Mellitus. His urine was passed in great quantity, and had a sweet taste; he had a ravenous appetite, constant thirst, became thin, and had the other symptoms which usually attend that complaint. Dr. Festeggiano prescribed a drink acidulated with hydrochlorie acid, to which small doses of ipecacuanha were added. At the end of eight days, the peculiar symptoms had notably diminished, the morbid characters of the urine had disappeared; and in a month the patient left the hospital cured.

GREEN CATARACT.—M. Cuvier of Brussels' notices, that this form of cataract is often confounded with glaucoma, and no attempt is accordingly made to afford the patient relief. Out of eight cases affected with Green cataract at the Ophthalmic Dispensary of Brussels, within his memory, seven had been restored to sight by the ordinary operation.

CURE OF ECTROPION BY NITRATE OF SILVER. -M. Magne was consulted in the case of a child, where the use of the scalpel being interdicted by the parents, Dr. Magne was compelled to depend for the local treatment solely on caustic. This he applied with great decision to both the palpebral and ocular conjunctiva; and to combat the inflammation apprehended from this treatment, ordered frefoot-baths, and compresses moisture with fresh elder flower-water, to be applied continually to the eye. The process of canterisation was renewed daily for a fortnight, at the end of which period the granulation had disappeared, leaving only a few whitish eschars on the conjunctiva, and child was soon afterwards sent away for change of air. Three months afterwards M. Magne again saw his patient, and

their rutting season. Among these the ovarian pointing out the advantages of such a society, very, very possible that this Session will see vesicles are found to increase gradually in size during the interval between the rutting epochs; and they ultimately escape altogether at these epochs without eongress of the male. The spontaneous detachment of the human ovum at the end of the menstrual epoch naturally renders that period the most tayourable for impregnation, and readily yields a reason for the fact that conception is most commonly referred, to that epoch by pregnant women. "Of 15 women (says Dr. R.) who specified accurately the period of their latest menstruation, as well as the dates of the commbial act, 5 evidently conceived from coitus taking place from two to f air days previous to the period at which the catamenia were due. In 7, conception dated from coitus occurring two or three days after menstruction; in 2, it took place at the actual period of the catamenia; and in one only so long as ten days after the latter had disappeared. Considered with respect to her generative function, woman holds a place intermediate between rutting animals, which are capable of impregnation only at fixed seasons of the year, and those animals in which a coitus only is required to produce impregnation at any season. She, however, approaches much nearer in point of this analogy to the former class, her power of reproduction being infinitely the more active at her menstrual periods, to which the rutting time in brutes bears a strict physiological resemblance.

MEDICAL NEWS.

ROYAL MEDICO-BOTANICAL SOCIETY, Jan. 25, Dr. Signoxo in the chair,-Mr. Foote, the senior secretary, read a paper by M. Guibourt on the Ceylon Moss, from which it appeared that it had been described and figured by Turner under the name of fuens lichenoidesby Agardhas the spherococcus lichenoides - and by Lamaroux as the gigantina lichenoides, This moss, or alga, is in whitish, ramifying filaments, about three or four inches in length, and about the thickness of strong sewing thread. It appears to be cylindrical to the naked eye, but under the microscope it offers an unequal, and, as it were, nervous or reticulated surface, Its branches are either dichotomons, pediculated, or simply alternate. It has a slightly saltish savour, and is searcely, if at all, soluble in cold water. Lodine colours it of a blackish-blue colour, mixed with a red tint; it therefore contains amylaceous matter. The Ceylon moss affords by boiling, an abundant nutritions jelly, well suited for invalids. The residue of the decoction may be employed as food; it may be prepared in the same manner as the legiminous vegetables, and is oceasionally eaten raw. Such, in fact, is its principal use in the countries where it is indigenous. Some fine specimens of native medicinal plants were laid on the table by Dr. Houlton, among which was the prunus Linro-cerasus. With respect to this, Dr. Houlton observed, that a patient of his, who had been engaged for several hours collecting it, was, after a time, seized with all the symptoms of poisoning by prussic acid, from which he recovered by the use of medicinal and dietetic stimulants.

ETHNOLOGICAL Society.—A meeting of gentlemen engaged in scientific pursuits, was convened on Tuesday evening at Dr. Hodgkin's, in Lower Brook Street, for the purpose of forming an Ethnological Society, on purely scientific principles, for investigating the natural history of civilised, as well as uncivilised man. Mr. Greenough presided on the oceasion, and Mr. Richard King acted as the scere-An essay by Dr. Ernest Dieffenbach, task he has undertaken, and it is, even now,

and the course that ought to be pursued in carrying out its objects, was first read, after which Dr. Granville moved-that it was expedient that the Ethnological Society he formed. Dr. Hodgkin seconded the motion, which was carried unanimously. Dr. Hodgkin, a Mr. Greenough, and Mr. Richard King were appointed a sub-committee, with power to add to their number, to take into consideration the bye-laws and regulations necessary to be adopted, and to report thereon at an future meeting. The objects of the society would be to collect, register, and digest, and to print for the use of the members, and the public at large, in a cheap form, and at certain intervals, such new, interesting, and useful facts as the soci ty may from time to time acquire; to accumulate gradually a museum il-Institutive of the varieties of mankind, and of the arts of uncivilised life; a library of the best books on ethnology, also, voyages and travels, as well as all such documents and materials as may convey the best information to persons intending to visit foreign countriesit being of the greatest utility to those who are about to travel to be aware of what has been already done, and what is still wanting in the countries they may intend to visit ;-to render pecuniary assistance, when the funds will permit, to such travellers as may require it, in order to facilitate this particular branch of their research; and to correspond with similar socicties that may be established in different parts of the world, with foreigners engaged in ethnological pursuits, and with the most intelligent British residents in the various remote settle ments of the empire. The admission fee is proposed to be £3, and the annual subscription, £2, or both may be compounded for by one payment of £15; but the first 200 members are to be exempt from the payment of the admission fee, and their composition will be consequently reduced to £12. When 200 gentlemen have announced their intention of becoming members, a meeting will be called for the purpose of electing the officers of the society, and then, but not before, will the subscriptions become due. In the meantime, those who are already enrolled as members are at work reading papers, publishing transactions, and collecting materials for a museum.

MEDICAL REFORM .- In the House of Commous, on Tuesday evening, February 7, Mr. F. Maule wished to ask the Right Honourable Baronet whether it was his intention to bring forward at an early period of the present session any measure of Medical Reform? Sir J Graham said the honourable gentleman who had asked him the question must be aware of the extreme difficulty of the subject; he might. however, say that he had given every attention to it. But a preliminary step, as it appeared to him, to every measure of Medical Reform was —and he had stated the same last session—a new adjustment of the charters of incorporation of the two Colleges of Surgeons and Physicians. The Government had for some time been in communication with the principals of those Colleges, and had proposed certain alterations for their consideration, which alterations had been discussed; and he hoped in a very short time to be in a condition to submit to Parliament a measure affecting the charters of incorporations of the two Colleges in London, to which he had referred; and, together with that measure, it was his intention to bring in another Bill affecting the medical profession generally throughout the I nited Kingdom. (The Home Secretary seems to be growing less confident as he gets longer acquainted with the

the wreck of another Medical Statesman without anything more being done for our profession. The truth is, that Sir James is too careful of the vested interests: his weak fearfulness of their opposition threatens to make his Bill unworthy of a Statesman, and worthless of the profession's acceptance. In his position he has the power of doing what Messrs. Hawes and Warburton had not, of making Colleges hend to right principles, not right principles to the Colleges. Has he greatness enough to exercise it?)

ROYAL COLLEGE OF SURGEONS. LONDON,

List of Gentlemen admitted Members on Friday, Feb. 3, 1843 :=

R. D. Edgecombe, G. Beddow, J. Morrison, L. J. Shearmaw, G. Johnson, J. Vincent, T. W. Smith, C. A. Aikin, M. Maenamara, D.

ADVERTISEMENTS.

ITI GANTIA, PXCELLI NTIA, et GLONOMIA,

JUNERUS FRENCH MATERIAL -Firstthou botto milly charged for articles of SAMT quality. Wellington Boots, 25. Grooms' Top Boots, 268

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MIROYLD PATENT PORTABLE, WATER CIGNET, a strained spent to revery ofter, being more directly under stable, more shaple in their control to to, and entirely tree true smell, orice 24 has, painted a rese handsome in thosany due, i.e. also banders's meant meant of sater closel, to be fixed over any pipe, fram, or cesspool, combaning, within the space of the sudmary seat, at mechal the expense. They are to worded complete from the montastery, or the three may be attached to the pipe by a cerkina on the spot. They are pathentially recommended on account of their companions and simple attached to be of handed each of DANIEL. THAMBERS, a center and sole maintacture, 47. Currey-street, incohis-lim.

TRIGHT'S PATENT DRAG.—The use of FIGHT'S PATENT DRAG,—The use of character transcess for calculated, parties assigns to safety and relief to their borses have mow an opportunity of having one on the must improved more play such as has near been offered to the oplification. The curries to be a partie of the respective of the care for the care of the care of the parties of the partie

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e-finimial.

It in the applicate about regard to the passe in case of accident, and table accomplished by a cloth for your of law.

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To the Propriet red Winter (18 November 2) Brown (18 November 2) Part a Durse, Juny 10, 1812.

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GLORGE HANDALL.
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"Dated October 23d, 1816,"

"Dated October 23d, 1816,"

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THE MEDICAL TIMES.

A Journal of English and Foreign Medicine and Medical Affairs

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LONDON, SATURDAY, FEBRUARY 18, 1843.

FOURPENCE,

Part beconvenience of Sub-orders in remote places, the Weekly Number one reason in Monthly Part of the bell in a Wripper, and forwarded with the Magazines. -Orders for the Stomped Edition [16s, 16d, per Haif voir, Post-free in advance,] are received by any B. Scieller of Newsonan, or may be directed to J. V. Carfage I. q., at the Wedley Time. Office, (late Lancet Office), Isonlan

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COURSE OF LECTURES ON THE THEORY AND PRACTICE OF MEDICINE.

By C. J. B. WILLIAMS, M.D., F.R.S., Professor of the Practice of Medicine, and of Clinical Medicine, at University College,

* ,I have now to notice an important phenomenon resulting from percussion that I did not mention vesterday, and that is, sound proceeding from the deep-seated parts. I have mentioned that sounds on percussion may be elicited either from the superficial parts or the dilated parts in some degree, and I mentioned the different sounds that arise, and that may be thus elicited, by deep seated perenseion in the upper parts of the chest. But in the upper parts of the chest, you will observe there are constituents of sounds that I have not adverted to,-the large tubes themselves.

Now it appears that a certain amount of tubular sound is given in a state of health, by foreible perens in a, if it is not mix I up with an unusual pulmonary sound, which tends to give a great resonance to those parts of the chest, If the pulmonary tissue is of such depth and thickness as to be adapted to transmit the stroke to the interior of the tubes, you will not, if you listen, find a tubular sound on percussion. But if you come to the traches, and make the percussion there, you will get a th-bular sound. This sound varies according to the length of the tubes. It happens in some cases of disease in the upper parts of the lungs, especially towards the roots, that they do transmit the sound to the tubes, and under these circumstances, you find a tubular sound on percussion. This completes the whole history of the percussion sounds of the chest. The tubular stroke sound is produced in cases of disease, where the pulmonary tissue is so far condensed as to transmit that stroke from the exterior to the tubes, or where the tubes are pushed into closer contact with the walls of the chest, or when the tubes themselves become expanded by irritation or by dilatation, or by the formation of cavities communicating within them; where this is the case, the sounds are more or less of a tubular character, and what is called the crack-pot sound is produced by the percussion in the tubes or cavity communicating with the tabes. The percussion in that case gives not only the sound of the tube, but likewise a little tinkling or quivering sound, which resembles not only a pot or a jar sound when struck, but a crack pot sound, with the addition of a certain jar or tinnitus, or bubbling through it.

We now proceed to the next class of sounds, those produced by the passage of the air to and fro, or expiration and inspiration. I shall not be too minute in explanation of these signs and the varieties of anscrittation, because I have detailed them fully in the works I have written on this subject in the fast edition of the "Pathology and diagnosis of diseases of the chest." I shall only here refer to those points which require some observation in reply to some able writers who have treated of this subject.

Now you will find that I have given a certain

of the air, that is motion resisted. Motion alone does not constitute sound, but there must be resistance. And so with regard to the motion of the heart; the motion of the air to and fre, gives sound in proportion to the amount and the velocity of the air, and the amount of resistance given to it. Accordingly, in the sound produced by inspiration, the air being received into the month in the act of inspiration, passes with considerable force through the tracheal cavity, enters the laryny, goes down to the trachea, and passes down to the ultimate divisions of the bronchi, Now the air meets with a certain degree of resistance from the sides and angles of the tubes and various prominences which it meets with in its course. If the motion of the air is foreible, the passage of the air produces sounds. Accordingly, we have sounds characteristic of the parts through or over which the air passes. We have sounds produced by the passage of the air in the nostrils, and in the upper part of the head. There is the palateal sound, from the passage of the air against a sort of palate, evident in the snorting of persons during sleep. There is likewise the laringeal sound, quite distinct, and highly characteristic; you hear it by applying your ear to the stethoscope over the laryux. Then the air passe down with considerable force, and carries sound with it through the air tubes, and therefore there are various sounds produced at the upper part of the air passages. They are heard likewise in in pication as the air passes down the trachea over the larger bronchi. The sounds become more tubular over the smaller bronchi, and when the air gets into the smaller ramifications of the bronchi, the sound produced give the idea of concentrated air in motion with considerable force. It is more concentrated in one body than when it becomes expanded over a range, because the tubes and their divisions are enlarged in area, and hence there is a greater velocity in the passage of the air through the traches, than the larger divisions of the bronchi. This is the reason why the sound is londer and more intense in this situation than it is over the surface of the Inng. But where the tubes plunge and divide into the tissue of the lung, there the resistance met with is still somewhat deadened, though there is enough to produce sound. When the air becomes diffused over a greater extent, and enters into the vesicular texture, it gives rise to a diffused dull sound, of a more agreeable character, which is called vesicular or respiratory. The sound in this case is somewhat like the passage of a breeze through the leaves of trees, and its peculiar character is that it has not the sharpness or harshness of the concentrated tubular sound. For a more correct description and better understanding of these sounds. must refer you to the direct impression of the senses, which will give you a far better idea than words can express. In fact, words do not properly convey any representation of the senses.

We now consider the air passing out. In this case there is a little modification in the sound; it is not of the same kind as it is in the air passing in. After the lungs are expanded by air, there is a passive state, and the motion commences in a reverse direction. But the motion commencing has but little force; it is a thing beginning to move. It has little impulse or momentum, and clearly has not the elements of sound, or the element of sound and motion is wanting. Resistance is the first effort, and this is created by the air passing through the minute vessels into the tubes. The tubes are funnel shaped, and there is no angle to oppose them whatever. Hence when you listen to the chest in the act of expiration there is a little faint sound, but it is trifling to the full and equal sound in inspiration. It is different when the air gets into the tubes. It acquires in that definition of the sounds produced by the passage case greater momentum or continuence of this the neighbourhood of the tubes, and it is more

motion, and acquires greater velocity also; but as I have mentioned the area of the tubes is con--iderably smaller than the area of the vesicles; and the area of the large tubes is considerably smaller than the area of the small tubes. There is a progressive increase of velocity as the area passes from one to the other, and with the increase of motion there is an increase of sound. A certain degree of reserberation is produced by the passage of the air along the sides of any tube, and more or less motion will be produced.

Now there is one principle we have not yet clearly seen. Yen hear the sound on in piration fully all over the lung, because the sound is produced all over the lung, not only in the tubes, but in the vesicular texture itself. But we hear the sound of expiration very indistinctly over the lung, and it is only produced in particular parts internal parts. How is it that we do not hear the sound of the tubes through the vesicular texture? For this reason—that it is an exceedingly bad conductor of sound. The texture of the lungs consists of a succession of bodies, differing very much in density from each other; and differing so as to impede the transmission of sound, there will be a certain amount of equality of tension given to them to transmit the sound just as soft bodies are dampers of sound.

Now where sound is produced, its propagation is owing more to the yielding of the texture, than to the transmitting of the vibrations. This is the reason why the sound of inspiration is purely vesicular over the greater part of the lung, as also why in expiration there is but a slight sound over the greater part of the vesicular texture. The sound transmitted to the full is not transmitted to the interior. When you come to the bronchi near the avilla, you have the air in the tubes so intense as to pass peross the vesicular texture, and you hear the sound of tubular inspiration. It is londer and more concentrated, because there is no intervening texture to cut off the sound.

Now all these principles are applicable to discase. Suppose a particular texture is consolidated or is compressed by liquid effu ion, the result will be more sound than is given by the vesicular This very compression of texture rentexture. ders the lung a good conductor of sound. It was before a bad conductor on account of the porosity of its substance, which is very membranous and very tlaccid, giving a dead sound. But now the sound is more concentrated from the medium of the sound being more uniform, and being in a condition capable of transmitting sound. In expiration you will have not only the sound of the tubes in the region examined, but you may have the sound transmitted to the other regions by the concentrated texture. It is transmitted from the

interior to the exterior. Now let us consider a few things in respect to unhealthy sound. Loudness depends on velocity, and the amount of resistance. Accordingly, quick breathing and rapid breathing give the greatest amount of sound. On the other hand, low or long breathing gives little sound, and where you have difficulty in hearing the sound on inspiration, you may render it more audible by desiring the patient to take a quick-breath. $\hat{\mathbf{A}}$ cough does the same thing. In children the respiration is naturally both more foreible and more energetic or rapid, like most other movements of children, and this is one reason why respiration is naturally londer in children. The texture of the lung is more dense. There is a greater proportion of solid contents in the texture of the lungs of young subjects than in old persons, and the superficial parts of the lung are in fact denser. And this is the reason why the sounds there are transmitted, and the sound is so much more of a tubular character. There is a greater sharpness in it and in

I find. The tubular phenomena are discother once the sloped in children than in while.

Now disease sometimes produce a somewhat sailar effect at one part of the hing. We find in hildren that if anything incapacitates a large portion of the lung, i will acquire increased exeron and increased repulity. Thus it is when one fing, or a large portion of one lung, is discused; ang, or a targe portion of one fing, is diseased; there is caused single incutary respiration, a term given to it by Iri. Andrew. Marbid varieties, consisting of disease at degrees of londness and incensity in the bears for of the respiration are induced in different parts of the chest. There may be many bearing of the respiration of the respiration. cricic of the requiratory murnur or breach aund all over the clost, without there being any in, and therefore with regard to the first ound, or with regard to the stroke on p rev sion, the chief the dord is that of comparison of the one ide with the other. Then there are varieties in he degree of the respiration. For in cases, the sound of inspiration is impaired by those diseases that obstruct the tubes, preventing the access of the pir through the fexture. It is likewise imwired by compression of the texture, as in liquid Susjon. Then there is umusual rigidity of be texture, a want of clasticity, a want of oledinee to the motions of the chest, which prevents the passage of the sir in and out, to and fro, reularly, as in the ordinary act of respiration. Again, this differs not only in degree but in kind, ad thus you may have varieties of charp and soft sciention, the shops sound somewhat approachog to the tubular cours for, or a soft and diffused and which is naturally deep.

The varieties of tabular respiration may be transatted to the exterior, and give rise to diderent gas. There is a cavernous variety arising from the renamination of the air with a cavity, instead of didividing in the usual way. We find this taking place near the apex of the lung in plathisis. There are sounds depending on the sixe of the exity, sometime by the passage of the circin all out of the cavity, and sometimes a rest the couth of the cavity. Great varieties ray be presented by the carliforn of the lung when discounts a both the cavity and semptimes when there is even as a superintion or tabular respiration, you are that the count is produced not only in investing but more or less in expiration. This is the real myly you have not always the more contant phenomena in cavernous respicion and in breneful repiration. The sound is a label to the count of the air situation.

in contain phenoment in external region and in brenchial repiration. The sound should be the passes of the nir into a sound like it be the passes of the nir into a sound in this case is like ving into a document of water. On the hand, there may be a early, across the half which the circlidays. In often takes of that we rity is force that the nighbourhood that we arity is force that the nighbourhood that we arity is force that the nighbourhood that we are in passed documents. Every the case in passed documents. Every the case in passed documents. Every the case is possed on much the sounds the case of the night of a cavity in the case of the night of cavity in the case of the night of a cavity in the case of the night of and the case of the night of and the case of the night of an analysis.

The control of the control of the respiration of the control of the control of the problem of the first of the control of the

in expiration me t remarkably in emphysema. Sometimes it has other things added to it. Not merely are the sounds of re-piration modified, but new sounds are added, sometimes of a totally new character. Their principal character generally is dependent upon an unmaturally increased resistance to the passage of the air through the tubes and into the ve leafer structure. Increased resistance to the passage of the air will produce new vibrations, which are removed in some degree universal; it is a soniferous, and altogether a negality sound.

poenliar sound. This populiar new sound is referable to various causes. For instance, it may be produced by a welling on the trachea, by a tumour pressing on it, so as to leave the passage very narrow. This even will cause an increased resistance, and that increased resistance, when increased to a considerable degree, causes new sounds. There is not only a blowing sound where the passage of the air is free, but there is a musical sound. There are variations of sound produced by different rhonelii—the mucous rhonelii. There may be a clot of mucus across the angle of the tube, and as the air passes, it receives a jerk, and is driven into a sonorous vibration. There are the sonorous rhoughi, the snorting, or dry mucous rhoughi. There are other varieties that are produced by the passage of the air through a liquid; the air passing through with considerable rapidity produces bubbles, the breaking of which bubbles causes a new sound, a crepitation, or a bubbling sound, more of a crackling character in the smaller tubes, and a labbling in the larger ones. is the whistling, which is one of the dry rhoneli. This takes place chiefly in the small tubes. Also in the large tubes, where the passage is narrow. This whistling implies a very narrow orifice. There is a condition, again, that is indicative of serious disease; that is, where the loud sonorous rhouchus is hardly heard. This d pends on a thonour external to and compressing the tube. as in obstruction from macus or a thickening of the provide; and where it remains permanent, it may haply something serious.

There are other signs of disease independently of these, to which we should direct our attention. For instance, compression on the north by one of the long bronchi, and a great culargement of the bronchial gland. The rhonehi are very often unneoural and vesicular, for this very obvious reason: imasemen as there is a breachial funiour, there will be a certain degree of obstruction to the pessage of the pir, and consequently the act of vesicular respiration will be very much impaired. Again, some of the varieties of rhoughi one their processes and their character to their being in the finer brought is tend of the break and middle-sized ones. Not in the vesicular texture entirely, but in the tale , leading to the a. This depends on the amount of the liquid. Where it is be, and it does not amount to a crackling, it is subgrephant: and where it is enalling, it is ereption. The envetical, sound consists of some other cound being associated with the blowing cound in respiration, and it depends on the ctors in of liquid in the sent of the regiration. Very often there i unisical cound and the nuncous ercpit int together. This is a very common kind of mucous rhombus. The dry mucous, the copinant and the enterrept tant, is sometime prediced; it views very much, and has been called the muco-crepitant thoughns

Now the bubbling rhow hi are rail or owre important. The moist rhow hi are rail or owre important than the concrous, for this reson that the presence of the liquid in the texture or in the tube, will more interfere with re-piratios than the observation producing the sonorous reaches. In fact, it may arise from a partial destruction, whereas the nursons and the other rhoughly imply a hubbling in a creat many takes; and accordingly a hubbling in a creat many takes; and accordingly a main proportion to the respiratory the amount of infrincement on the respiratory function.

ear, where the air cell.—Now a few words a to the value of the voice, thow or other they do. Sounds of the voice are trusmitted through the with a colour. They cheef, As the air passing along probles counds or opin airon. In in pissing the vesticular texture and then traversee the study in branchar and probles to the cound of the goes is produced in the

tubes in various ways. Let us start from the loud and open voice. If you apply your car you will hear the voice in its greatest character; the whole of the trachea i - eccupied in a strong degree, and the larger tubes especially. You have in this case natural bronchophony, like to the voice in the interior, in the region of the laryux and the traches, over the sub-divisions of the large tubes. When we come to the texture of the lung, you have a condition greatly different. The tubes divide and subdivide, and diffuse an amount of resonance by that subdivision which extends all over the texture of the lung. The lung, as I said before, is a bad conductor of sound, and not only is it so, but it is a stifler of sound, a sound damper. This is a principle matural philosophers have lost sight of in a great degree, that a body may not only be a laid conductor of sound, but may actually intere pt sound, so that it is not only not transmitted, out damped and cut off. In some parts there are particular notes of the voice. The sounds may be transmitted over the chest. Take the tubular sound. There is the natural sound of the voice or trachrophony, which is heard also in the back of the neek, and is transmitted pretty strongly. When it is transmitted into the texture of the lung, and is transmitted over the larger tubes, you hear natural bronehopheny. You hear it in the axilla, and also in the intercostal regions, and then there is a resemblance between the sounds of the two sides. You hear the sound of natural broughophony more on the right side than on the left. Besides these sounds there is pectoral fromitus. The sound in this case is diffused more forcibly over the whole chest, arising from the air being so strong as to overcome any difficulty offered by the vesicular texture. When the sound is very strong and cannot be muilfed, it is transmitted into the interior, and is heard in the form of diffused resonance. It may be both heard and relt, and you find that the sound causes the interior to vibrate with your ear.

Now with respect to the explanations that have been adduced, I have given those of Laennee, Dr. Schomel asserts that the morbid sounds produced in the tubes, and the natural sounds of the bronchial voice arise from what he calls consonance. It is very well known to musicians that when stringed instruments are tuned to a certain key, and you strike a corresponding cord in another instrument, that will vibrate and give a respondent no e, according to the espacity of the body to vibrate. Hence Dr. Schomel say - that the reason why you do not hear broughophony in all eases is, because there is no consonance. If this were the case, we should hear certain sounds given in discased bronchophony, and certain sounds given with regard to natural bronchophony, I take up the other varieties of these sounds to-

A CONTRACTOR CONTRACTO CIRE OF EPILEPSY .- Dr. De Losch, of Brussels, records a case of great interest. The patient was a young lady, 11 years of age, and of a nervou and very excitable temperament, in whom epileptic fits became frequent, after an accident he had met with. Antiphogistics, anthelminties, schatters of all Linds, change of air and seene, emeties, exide of zine, eyanuret of iron, assidedida, indigo, nitrate of silver, &c., had been fried without success, when the Doctor tried annuorated sulphate of copper, of which to ordered one-sixth of a grain three fimes asday, to be followed by a glass of old Malara wine. Three days now clapsed without a fit, but, on the fourth, one of much violence occurred. The dose of the remedy was now increased to one-fourth of a grain, and no subsequent fits took place Some vertizo was experienced for a time, but this disappeared gradually, and the young lady has enjoyed perfect health for the Let two years. The renal secretion was comewhat augmented, and the nrine exhaled an ammoniacal odour while the patient was under the influence of the ammoni wo sulphate, but no other function underwent the least dis-Aurbanee.

NOSIS, PATHOLOGY AND TREATMENT OF DISEASES OF THE NERVOUS SYS-TE36

F. Marshall HMI, M.D., E.R.S., Fellow of the En-College of Physicians, Landon, Se., &c.

(LUCTURE VH., Delivered December 16, 1849)

GENTLEMEN, I propose to begin this lecture by referring to the subject of congestion of the brain, and its symptoms, -apoplexy; in order that I may mention one or two facts to you which are full of interest. In the first place, I may venture to say that the purest case of apoplexy, arising from congestion within the brain, is that which follows a violent attack of epilepsy, and I do this, that we may have a fair view of what congestion will produce. For in epilepsy, in the majority of cases, you may be perfectly sure that congestion is quite pure if it is accompanied by anything like offitsion,

The first remark I have to make is, that congestion may go so far as for a moment to affect the excito-motor system, so as to produce a little difficulty in swall-owing. I want, in the first place, to mention a very interesting fact. I was called a short time ago (three or four years) to see a patient labouring under that violent degree of apoplexy following epilepsy, to which I am now alluding. After examining the case, I adopted these measures :-- I took some of the colde t water I could get, and dashed that cold water in the face of the patient. The object of this was to ex-eite the mucles of respiration. I then placed the patient perfectly upright, and took blood until a little impression was made on the whole system. I repeated the experiment of dushing the cold water on the face, but all that we could do had not the least effect. This is, therefore, an interesting case, as giving you a diagnostic of the violence of the disease; and the conclusion to which we come is this, that in the most violent cases of apoplexy from congestion of the brain,-those case; in which the re-piration is affected, and the swallowing is affeeled, if you dash cold water on the face, it is most probable you will produce no effect whatever, and it may pass in your mind for a very severe case. Here you have a measure of the case, and it is only necessary throughout our lecture to determine what cases are so very formidable with regard to the prognosis, and the violence of the affection.

Another fact I want to mention is this, that I believe, in many cases of pure congestion of the brain, the patient dies because the respiration is You observe in these violent cases the imperfect. respiration is statorous; and when it is so, you may be sure that it is more or less imperfect. In a violent attack of epilepsy, the respiration is first of all sterioron, been a the excito-motor system has been involved in the disease. The next thing that follows, is the affection of what may be called the ganolionic system; and the way in which I would describe this, will be by a reference to the experiment of an naimal with the pneumo-gastric nerve divide I; and even the lungs become suffused with mucus, so that there is an obstruction in the respiratory function as well as stertorous breath-

Now in these cases there is first a question, whether you will use any kind of relief beyond what is most common? Suppose you have such a ere, and it is distinctly (from the absence of all paralysis)-distinctly a case of congestion of that kind which follows epilepsy. Some of these cases are trented cutirely on the principle of congestion of the brain, where even impediment is offered to the respiration by the counter pressure of the con-gested brain on the medulla oblongata itself. Suppose you ldee I, and adopt every measure to relieve the patient, and yet the patient remains in a condition very likely to prove fatal. There is, you will recollect, the sub-equent state of sinking. The question is, whether you may do anything more?

Now I beg to an ution one of the most interesting cases, I think, on surgical record. The case was treated by Mr. Sangrom, of Soll-bury. The

COURSE OF LECTURES ON THE DIAG- chilepsy. Every means were adopted to relieve him, but still he remained comatose, and affected with stertoron, breathing, "At this period," says Mr. Sampson, "it occurred to me, that the comatose state in which he lay might not arise from apoplexy, but from that state of the brain arising from that organ being supplied with blood not duly oxygenated; the breathing had a shrill tone, and it took place with extreme difficulty, and there was an extreme state of collapse, and this fact would account for the paralysed state of the eighth pair of nerves. I appealed to my colleagues, and strongly arged a trial of the operation of tracheotomy; for I could not but cone ive, that if this mechanical operation was carried on for a time, the blood might regain its proper stimulant quality, and restore the energy of the brain and the nervous system. On their consent being given, the operation was performed. The obstruction of the voins about the head and neck caused an ob-struction to the flow of blood." Here you observe a very important thing, that obstruction raised up an antagonistic power against any remedies you might apply to subdue the state of congestion of the brain, therefore the case was not one of mere defective respiration, but one in which there was an impediment to the reflux of the blood from the brain. He goes on to say that the violent condition of the respiratory efforts ceased, and in about half an hour from the performance of the operation the circulation of the blood was completely established. I believe that man would infullibly have died of congestion of the brain; at any rate, from that comatose condition which impeded the respiration, and that impeded the reflux of the blood from the head, but for this kind of operation performed by Mr. Sampson. Trachestomy was performed, and the respiration became comparatively ea y, and the rellax of blood from the brain comparatively free, and the patient recovered.

I do not suggest this in doubtful cases of apoplexy. I do think that patients ought to recover from apoplexy following epilepsy, without having recourse to tracheotomy. Thave seen many cases of apoplexy following epilepsy, accompanied by a more than usual congested state of the Irain, followed by violent convulsions. Here, therefore, I have made up my mind not to let a patient die without performing this operation of Mr. Sampson's. I would do the best I could in that manner, by relieving the congestion of the brain, and by causing a free flow of blood and air to the lung, is the second remark I have to make on this subject, and which I give to supply the several defects

left at my last lecture.

Now I am going to mention another fact which I think will be exceedingly int resting to you. I need hardly have recourse again to that state of apoplexy or congestion of the brain residing from the violent struggles of epilepsy. In such a case, the larynx is closed, whilst the violent efforts of respiration, and of the whole muscles of the body. drive the blood to the head, and produce a temporary congested state of the brain, and temporary apoplexy. It is just possible that rupture may take place within the brain, and therefore, though I regard such a case as pure apoplexy, there may be an exception to such a rule as this. The reason I conclude that there may be rupture of the ressel within the brain is this, that sometimes there is actually a rupture and an escape of blood from the vessels in the skin on the face itself. I have a little sketch of a case which is remarkable for the spots upon the whole surface of the face. The a spots are slightly ecchymatose, and come on under three circumstances. One is violent epilepsy; another, the violent efforts of parturition; and the third, violent efforts of vemiting. My object is to show what takes place in epilepsy. You will observe very minute eechyma-tose spots which do not disappear under the pressure of the finger. I some time ago, was called to see a person of high rank who had an attack of some kind or other; he lived in St. James's square. The question came to be, whether it was an attack of apoplexy in the usual acceptation of that term, or whether the patient had a fit of epilepsy? In the first place, before I saw him, he had entirely econored from the state excount in which he had

him, there was not the slightest paralysis. Here are two circumstances which led to theiden, not so much that there was apoplexy after rupture, but that there was something else, I observed his peculiar habit, and that his forehead was affected with ecchymatose spots of blood which would not disappear under the pressure of the finger, and I concluded that there had been a violent convulsion. I knew that violent convulsion did not accompany apoplexy, especially such a case as that which must have soon subsided. I gave it as my opinion that there was epilepsy, and so it proved, for there were subsequent attacks of epilepsy. These are the three points to which I wanted to draw your attention, and to supply the defects of my last lecture,

There is another point I mentioned at that lecture, but which I did not illustrate by any plate, or by any drawing. It is the case of a clot hetween the cerebrum and the medulla oblongata, You will recollect the case was one in which a person died in an instant from an attack of hemiplegia. In a case of this kind apoplexy is general, and paralysis is general; and all the functions cease in a moment. Well, that is one of the cases in which we may absolutely have sudden death. When anything interrupts the circulation of the blood and produces death, it may be called sudden and instantaneous.

Now the next subject I wish to bring before you, is the subject of local and partial diseases of the brain, and for the most part tumour at the base of the brain, and you will have here various disorders of this kind. In the first place, there is the influence of a tuberenious tumour at the base of the brain, or tumours variously situated; and these tumours produce their effect by irritating or compressing the brain. Now these diseases are characterised by pain, more or less. You have irritation of the brain attended with a derangement of the cerebral system. You have compression of the brain attended with coma, but more frequently a state of things different from this, which is characterised by compression of some of those nerves passing along the base of the brain.

I may here mention to you the case of Dr. Wol-Inton. He died of such a tumourus this, situated at the base of the brain. He lost part of the sphere of vision, and he lost more or less of the motions of the eye. Like a philosopher, just as the discase pursued its progress, so did he say-"now this part has been compressed, and now that," He was attended by Sir Benjamin Brodie, For further details of the case, you may refer to Dr. Holland's recent classical work—Medical Notes—the second edition, under the head of "The brain is a double organ." This case is nacrely an illustration of tumours at the base of the bra'n, which show themselves by pressing on the organs that lead to the senses, and that, more or less, impede the functions of the senses.

If there is a tumour in a certain locality, you can easily imagine that it will press on the optic nerve, or in another locality on the offactory nerve, and that if in a lateral situation, it may affect the sease of hearing, and, if that situation is further back it induces some of those sudden cases of bemiplegia that are produced by compression on the medulla oblongata. Some of those cases are at-tended with spasmodic affections, but I want particularly at this moment just to allude to a case in which you have what has been supposed to be hemiplegia arising from a state of ossification of some of the membranes of the brain. I have seen a portion of ossified matter at the phorynx, and I have seen it at various parts of the membranes of the brain which have been affected by hemiplegia, and which have been supposed to be the cause of hemiplegia by irritating the substance of the brain But how, gentlemen, shall we reconcile this idea with the fact that no irritation of the substance of the brain will produce spasmodic action? In fact, there are many facts which seem literally to contradict any such opinion as this; in the first place, see how the ossified portion of matter is situated, and then see if it is situated between the layers of the thick membranes in such a manner that there is any possibility of any point was treated by Mr. Sumpson, of Salisbury. The accovered from the state executs in which he had irritating the substance of the brain. New the patient was breat-in to the hoping articles with been carried being. When I came to examine you irritate the constance of the brain you have

tion, and therefore none of that affection which you see in hemiples, in. What then is the probable reason, if it be true that this is a care of hemiplegia, what is the probable manner in which such a portion of ossified matter will produce hemi-

plegia?

I am now going to read a small paragraph of a late paper of my own in the Medico-Chirurgical Transactions, the twenty-fourth volume, in which I have endeavoured to explain this fact of spasmodic affection ari ing from an irritation of the membranes of the braio. "In an important experiment which I purpose to lay before the society in the next ses ion. I found that although every kind of irritation, puncture, or becration of the corebellum was entirely inoperative, yet that laceration or pinching of the dura mater, immediately induced peculiar spasmodic movements of the eyehall, the cyclids, the head, &c. These effects are probably induced through branches of the trifacial berve, which, as the recurrent of Arnold, is well known to impart branches to the dura mater, and which may do so to the other membranes within the cranium. The whole subject is in need of inse tigation. Our way must be pointed out first by experiment. This must be followed by observation. The membranes within the cranium and pinal canal, the other seems membranes, and the nternal textures in general, ranst be submitted to a similar examination." Here, therefore, I have placed before you the best idea I can form of the result, in the form of hemiplegia, induced by that kind of ossified body found very frequently in the lining of the dura mater and also attached to one of the membranes within the brain,

Now with regard to the nerves: I need not coover every nerve in succession, so you can easily imagine a tumour situated in any part of the cranima; and you can very easily imagine what are the symptoms. Accordingly, it you have the optic nerve compressed, you will have more or less of blindness; if the offactory, more or I as afficetion in the organ of smell, and co on. But there pre two or three points I want to draw your attention to, because they are so exceedingly important, with regard to the diagnosis. Now suppose a case in which there is a loss of sensation in the face. I want to make a remark or two here; how is it that there is loss of sensation of the matth, so as planet to have paralysis ari ing from cerebral causes? There is an imperfection in the organ of peaking—a loss of sonsation—a paralysis of soncation a paralysis of muscular motion arising evan cerebral causes. The loss of sensition is the can sof homiplesia. That is one reason why the eyelid will close. It causes a paralysis of the face from corollal disease. Where it cannot close at all, there is parely as of the same, i le of the face, from a presume on the sympathete nerves on the other has by whenever a base of son ation come; on from had, whomever a consequence of the disease of their verse, it is a generally speaking, a state of things there is a from no net redolition of the function of the nerve; and, therefore, the to sof sensation, or loss of melod, is generally epeaking, perfect. Suppose you are called to a case in which you perceive loss of susation. The question comes to be, is this a case of corebral affaction, or is this a case of affection of the nerve? If it is imperfect, I health generally speaking, be led from that the above to infer that it is corebe it fant if it is perfect. I de uild conclude it is not conclude, but disease of it curve it elf. You can ross important this fact is

Then with a view to the director I have auother remark to make; that whenever a nerv i attacked, it is almost invariably attended with other affections, with a loss of sen ation, and a 1 s of muscular player. Suppose the fifth pair of nerves is affected, what is the effect to the the fir a place, you will have a loss of consection at the care-spending part of the free. In the second place, closs of the power of closing the cyss, which beyon occurs in corelard paraly is. Therefore this is an indication of one disease of the nerve the erations. There is mother fact, and that a 7 the loss of murition to the cycledls. Now, when ever you have pernet be, of power of the noiseb, that more the cycleil on one side, when we confict a shop and amplies of the even

I have said that there will be no spasmodic affect ball, you may be perfectly certain that there is nothing but disease of the fifth pair of nerves. If it is not corebral, it is more important to make this distinction, because cerebral paralysis may have done this first, but it will do no more. The patient may live in this case, but when there is disease of the seventh pair of nerves in the brain, I believe it is invariably the ease that the patient sinks rapidly, and it proves

> I once had an interesting case of paralysis of the seventh pair of nerves, one of the most interesting cases I have ever witnessed. It was totally impossible to trace that paralysis to any disease externally; there was no tumour on either side on the external part of the eye, there was no disease on the external part of the nerve, yet the paralysis was quite complete, and the patient could not close the cyclid. I soon found out the fact, that it arose from cerebral paralysis. Are there any other facts that lead to the idea of paralysis of the nerves of the brain? Yes, I had a very interesting case, one in which with this paralysis of the eyelid, there was deafness. Now considering this case what must have happened! The same thing must have happened as in the other cases in which there was a loss of sensation, and a loss of power of the muscles to close the cyclid. Now it is possible that you may have one or the other of those affections independently of any disease of the brain, but it is morally impossible for you to have both. Therefore when the cerebral system is perfeet, when there are no cerebral symptoms, and you have perfect paralysis, you may be almost sure that there is injury of the nerve itself. You have sometimes added to this another symptom, that is, paralysis of the inu cles of the eye and loss of herring, and you are sure that this arises from compression of those nerves at their source in the erenimo.

Now we come to a very important diagnosis in internal syphilitic diseases, between that which is a more affection of the cerebrum, and that which is a tumour or disease of the substance of the brain. I wish, now, to draw your attention to another sort of diagnosis. al & I think, a very interesting one. You have doubtless heard of what is called a blight. I mean the effect produced by a draught of wind falling on the face. It sometimes happens that a person is exposed, for instance in church, (I know of such a case,) and comes from with a face distorteddrawn to one side. Now what I want to mention to you in the first instance is, that in the course of this drause, the face may be in the first in stance drawn to one side, and in the second instance may be distorted to the other side, in the very same case. This is a case I have never seen described any where, but it is a case in which Sir Charles Bell has said there is, in the first instance, perfect paraly is of the seventh pair on the one side, and in the second instance, paralysis of the same pair on the other side. This is not always the case. Now you are eware that if the hands are exposed to the cold, the first thing that takes place is numbres, and the econl thing is reaction or undue semibility. I remember the case of a patient, who came home after leaving been in a violent storm of deet and snow, with one side of the face utterly benumbed, and nothing would restore the sensation of the face. The next morning there was exernciating pain. You have numbness, then, in the first instance, and undue sensibility in the second. It may perhaps be that the cerebral nerve relates unturally to the motor nerves. In one iustance the face is drawn to one side, and then you may have a sparmodic affection of the other side, and the face is drawn back again. Now the diagnosis here is important. If you come to the con-clusion that there is first of all paralysis on one ids, and then on the other side, you come to a fol - conclusion. It must be that there is some disease in the cranium. The true conclusion must be, that where you have jerralysis on one side of the face, causing it to be drawn to the opposite side, in the fir Cinstance there has been a spismos die affection; the nerve has become benumbed and is mobily sensitive, and you have first of all over action, and then undue action. The first impres-

state is a state of inflammation, and then you have numbness and undue sensibility. In the other case you have spasmodic action and over sensibility,

Now I believe I must leave this subject of partial paralysis of the face, and pass on to the subject of injuries of the nerves. You will all have observed how rapidly I have given you these sketches. You are aware the number of lectures allotted to me is only ten, whereas I could easily fill three times the number. I must be limited to that number, and therefore my object is to give as much practical and as much diagnostic information in a small number of lectures as is in my power. This is the reason I have been very brief on some points, especially on mere pathology; I have other reasons, but the chief one is this, that you will have the greater advantage of hearing all that relates to the pathology of the nervous system from one whom I have long deemed one of the ablest physiologists of the present day, as well as, I may add, one of the most generous of men. You will, I hope, remember that any advantage you may derive from any remarks I can make, you owe entirely to one whose name I am bound to mention, Dr. Hodgkin.

I will now bring before you the subject of diseases of the nerves very briefly, as I see our hour is very nearly expended. In the first place then, you may have injury of a nerve, and it may entirely subside. In the second place, you may have injury of a nerve, and it may produce certain effects. Now I wish you all to remember these effects, because they are most important in practice, and the diagnosis of diseases. You may have pure tic, that is to say, you may have the symptoms of tie, and they may be confined to the nerve. You may have, after that, what I believe I must call a reflected sensation. For observe, you may have injury of a nerve in one finger, and pain in another finger and the thumb. I do not know what name to give to this, but that of reflected sensation. In one case you may have epileptic pain, that is to say, pain reflected into the thumb and the other finger. Instead of this pain, this re-tlected pain, you may have what is much more violent and severe, you may have complete tetanus, and instead of that you may have all kinds of par-tial tetanus. Now I do think I have set before you one of the most interesting arrangements of the effects of injured nerves you can possibly imagine. Remember how an injured nerve may be manifested. It may be attended with an exerneiating pain in the part injured, but instead of the pain being confined to that part it may be, in some inscrutable way or other, reflected to other parts, from one finger to the other. If then you have an injury of a nerve, and it is not of a sensitive charactor, you may have violent tetanus. But instead of that you may have what is called local tetanns: this is the fourth form of it. There was a case I mentioned to the Medical Society a short time ago in which I believe the nerve had been injured by blood-letting. There was immediately a partial sort of tetanns produced, and the hands drawn as in jerralysis. I believe it totally impossible for the fingers to have been so drawn by any act of the will, or of any other kind of action. I have not time to go further into the subject, but you will just remember the remarks I have laid before you, that in the first instance, you have pain in the part injured; and in the second place, reflected pain from that part to the adjacent parts; and that from another point you may have complete tetanus, and from a fourth point you may have partial tetanus.

I shall conclude this lecture by alluding to another subject, one of the utmost interest. The question came to be, whether, from an injury of a nerve you may have injury of the brain? you remember one instance—you remember a case I quoted, that of a ligature applied to the principal nerve, of the acidla y plexus. You remember the result of that, was inflammation and supportation of the opposite hemisphere of the brain, the posterior lobe. That fact leads to this idea, that inflammed tion may run along a nerve, or it may run along a vein, and produce its effect in the central organ, namely the brain.

In the beginning of this lecture I alluded to the sion of cold is to paralt on the marker. The second scare of a lady who returned from church and when

she got home, every body observed her face perfectly paralytic on one side. That went off, and the next thing observed was, that the face, which had been drawn to the left side, was now drawn to the right side. Now the dreadful result was, that this patient was prematurely confined, and she had a convulsion after her confinement, which terminated fatally. Now the question came to be, did the inflammation that affected the nerves on one side of the face, run along those nerves and affect the spinal centre of those nerves, and so lead to that catal convulsion that came on after confinement? We had no means of determining this point. But the gentleman who attended that lady had no doubt it was so, and he was criticised by those who had written previous works, and who had only taken the superficial affections of the nerves. I leave the case with you, and the whole subject, advising those who wish to pursue the matter, to take up this point-whether inflammation may run along the nerve to the cerebral and the spinal system, just as it may run along other tissues, especially those of the nervous system?

I will conclude this lecture by just adverting to the fact, that after amputation you have what I have described here. Tubercles are formed on the extremity of a nerve, those tubercles being the source of exeruciating pain after the amountation, and it very often happens that a second amputa-tion is made, and a third amputation at the shoulder joint, and then you begin to understand why the amputation here proved successful. One thing I forget to mention, and that is what is called a subsutaneous tumour. It sometimes happens that a very minute tumour is formed along the course of a nerve, which leads to dangerous symptoms. I have now done my best to give a general idea of the cerebral system and its diseases, and for the next three lectures I must beg your attention to another class of diseases-a totally different kind of disease, belonging to the excito-motor system; having their seat or their centre in the spinal marrow.

CURABILITY OF CONSUMPTION.

(Continued from page 296.) (To the Editor of the 'Medical Time...')

Sin,—All attempts to place the treatment of consumption on a satisfactory medicinal basis have signally failed. The animal, vegetable, and mineral kingdoms, have been laid under contributions to supply prophylacties and curatives. Demulcents, expectorants, emetics, sudorities, narcotics, tonics, astringents, balsamics, &c., &c., have been combined in formulae of endless variety, congruous, or incongruous, scientific or empirical, and as yet without effect. If the subject were not too grave, the perusal of Dr. Young's History of Treatment, is sufficient vicum movere in no moderate degree; it reminds me forcibly of Ovid's description of Chaos:—

"Obstabatque aliis aliud, quia corpore in uno, Prigida pugnabunt calalis, humontia siccis, Mollia cum duris, sinc pondere habentia pondus,

The multifarious details show that in the attempts at cure there has been no want of industry, perseverance, or boldness approaching even to temerity. But what a miserable, Indicrous exhibition of the impotence of ill-directed efforts the whole presents! In his laborious compilation, though the Doctor must have been not a little relieved by the amusing conceits and vagaries of his predecessors and cotemporaries, yet it is not a matter of wonder, that after parading them all in grand review, he should have joined the forlorn hope at last.

It is, however, to be regretted that he had not turned his researches to more practical account than recording the absurdities of the profession. It is labour a remind me forcibly of those of Sisyphus in the condemned regions of Oreus, who figures as an example of barren toil, rolling a huge stone up an ascent which be is conscious he can never win. The employment of this famous character was quite as useful as that of Dr. Young.

Lacannee commences his chapter on the treatment of consumption, by remarking on the numerous remedies proposed for its cure; the em-

ployment of every known medicament, however different or opposite in effect; the proposal of new remedies every day, or the revival of old ones, after having been long consigned to deserved neglect, and the inconstancy of every plan but that of giving palliatives, or fulfilling symptomatic indications. On such grounds, he proceeds to say, have acids and alkalis been alternately recommended; spare diet, and rich animal diet; dry air, and moist air; pure air, and feetid air; oxy-gen, hydrogen, and carbonic acid; exercise and quiet; emollients and tonics; heat and cold; paregories and other anodynes, and stimulants not only of the aromatic and antiscorbutic kind, but the most irritating preparations of mercury; the sulphate of copper, arsenic, and others. His own views of treatment are, however, equally dark and empirical with those of his predecessors, and wind up with the very unsatisfactory conclusion, that in the present state of our knowledge, we have no better means of opposing the disease than a sea voyage, or a residence on the sea coast in a mild climate. This impression was so strong on his mind, that for the purpose of establishing an artificial marine atmosphere, he actually introduced sea-weed into a ward of the clinical hospital to which he was attached. Could anything previously tried have been more empirical than the use of offensive fucus verrucesus? Oh! most lame and impotent conclusion!

In the records of the treatment of this disease, approximation to juster views discovers itself here and there, in the high value attached to exercise, particularly such as bears more immediately on the lungs. The principle, however, of its beneficial operation appears not to have been appreciated, viz., its giving expansion to the pulmonary tissue. In his work on consumption, Dr. Ramadge very truly observes, "neither perfect recovery, nor indeed exemption from the danger of a relapse into a consumptive state is found to occur, except in very rare instances, unless the pulmonary organs become naturally or artificially voluminous. By medicine alone this effect is impossible, and so long as we confine ourselves to it, disappointment will track our course; there is no alternative left; the lungs must be expanded by some means, and those are obviously at our command in the proeess of artificial respiration, mechanically regulated by the construction of the respiratory tube.

Diminution of the pulmonary volume, and contraction of the chest are adways found together, and have a reaction on each other. The moment the chest begins to contract from inadequacy of power in the respiratory muscles,-the result of debility, no matter how superinduced,-that moment also the lungs begin to contract, and vice versu. The area of the great air passage remaining the same, while the capacity of the lungs is diminished, subverts the normal relationship between the inspiratory and expiratory powers—renders the expiration too easy. The consequence of this conexpiration too easy. The consequence of this contraction, diminished activity, and disturbed balance, is the deposition of tubercles primarily in those parts of these organs, which, from their locality, possess least expansive power. Auscultation and autopsy concur in this conclusion. The evil once commenced, multiplies itself; the dissemination of tubercles at the summits of the lungs propagates irritation to the adjacent pleura costalis, and leads to adhesions. The deposit in this site is very common; in the majority of adult post-mortem dissections, we find either tubereles or black stains, or dark oval indurations of the pulmonary tissue remaining after absorption; unless some stop he put to the progression of pulmonary contraction, a second crop succeeds to the first, and the morbid deposit goes on if not cut short by dissolution, till at length the lower lobes are implicated. This increasing monopoly of the lungs by tubereles proportionally diminishes their expansibility. Even in health, owing to the various motions and positions of the body, the entire capacity of the air cells is seldom fully dilated; how much more must this be the case under tuberculous dissemination?

The altered form of the chest as it gradually departs from the healthy standard is a fathful index of the morbid changes going forward internally. In phthisis there is generally a wide intereostal space; the convexity of the ribs looks

more downward. than in leadth, and the lateral defences of the clast appear greatly lengthened; the stermun is either perpendienlar, or drawn downwards and backwards, increasing the usual elongated appearance of the neek; the chest losing its arched contour, becomes that; from the sinking of the ribs, a marked depression is seen both above and below the collar bones, and the shoulders advance forward, giving to the scapular behind a wing-like form; all combining to contract the chest round the collapsing lungs. Now, in asthma we have the same coincidence exemplified by contrast. The lungs being preternaturally expanded, the chest also becomes so; some of the muscles of the neck are hypertrophied and unusually firm; a hollowness is seen above the sternum from the retraction of the tracken and advancement of the larynx; the shoulders are raised, the patient stoops, and unless there have been previous pleuritie adla sions or contractions from tuberculous disease at the summits of the lungs, there is no depression above or below the clavicles; the sternum advances forward in its entire extent; the arches of the riles tend upwards, so as to give the chest a rounded, full form, adapting the capacity of the thorax to the voluminous state of the lungs. By regulating the respiration, we bring both the chest and the lungs to the normal state, which lies in the middle between these two extremes. Thave seen very many instances of this both in phthisis and asthma. Even so early as a month from the commencement of the use of the respiring tabe in young consumptive patients, it becomes occasionally necessary to let out the clothes round the waist. The following case will give some idea of its power over the structure of the chest.

The Rev. Mr. Howe, late chaplain of the City Hospital, New York, employed the tube under Dr. Ramadge's directions for the cure of true consumption, which had reduced him to a state of almost hopeless prostration. In connexion with medical freatment adapted to the alleviation of symptoms, his health was restored by its use, and according to a communication lately received, still continues in a very satisfactory state. His own account of the changes in the form of the chest appears in an American publication, dated 1839.—He says, "the shape of my clest is astonishingly improved and enlarged. About six years since, the measurement of my chest close under the arms was thirty-two inches; but for five years following there was a gradual diminution, so that for three years previous to my getting the tube, my measurement was thirty inches, making a decrease of two inches; since getting the tube. I have increased in size two and a half inches, making my measurement now thirty-two and a half inches. But the alteration in the conformation of my chest is truly wonderful. The collar bones were very prominent, and the chest so drawn together, that I was afraid to see myself in the glass. Now my chest has recovered a round and plumper appearance, and my neck is filled out so that the conformation is better than it had been for years."

This individual had consulted some of the most eminent physicians of France, and also in London, without deriving any benefit from their advice; immediately before resorting to the use of the respiring tube, he had been under the care of Dr. T. Davies, whose treatment failed to give any relief. He then applied to Dr. Ramadge, who found him in a state of great despondency and prostration, but by the agency of incehanical respiration and sub-idiary medical treatment, he recovered under his care. In a publication, he mentions the names of several clerical and other friends, who made use of the tube by his recommendation, for relief from catarrhal asthma or phthisis. In some of the former, the disease had gone so far as to deprive the ribs of mobility; and in the latter, the chest had undergone various degrees of con-The mechanical respiration steadily traction. persevered in, had the effect of restoring free motion in the asthmatic, and expansion of the chest in the phthisical cases, some of them to a much

more considerable extent than in his own case.

I have now before me a letter from another American gentleman, in which he states that he placed himself under Dr. Ramadge's care, last

autumn for consumption, his chest then being contracted, and his flesh much wa ted; since that time, under the use of the tube, he has gained forty-one pounds in weight, and some inches in the size of his chest. He had been recommended to go to Madeira, but in deference to the advice of the above-named physician, remained in London, and has found his account in doing so, as indeed have many others also with whom I am acquainted, who had been ordered abroad, but have remained at home and recovered under this treatment- I select this opportunity to state that although the use of the respiring tube has, in phthisis, the effect of enlarging the pulmonary volume and the chest, it is not to be inferred that there is any danger of its being carried so far as to bring on a permanently emphysematous or asthmatic state of the lungs, In the treatise by Dr. Palmedo, of Berlin, al-

luded to in a former letter, he charges Dr. Ramadge with having asserted "that an asthmatic state of the lungs was produced, as well in cases where nature cures the phthisical disease, as in those where his method of cure is resorted to." I do not wonder at his want of success in the trial of this treatment, when he took so little trouble to comprehend Dr. Ranudge's meaning as to fall into the above-quoted error. This author, in many parts of his work, very distinctly asserts that the practice of inbular respiration never superinduces asthma or emphysema properly so called, but on the contrary, that it possesses an equal power over asthma as over phthisis. I have seen many cases of asthma at the infirmary, and also in private practice, in which it has been employed with the most decided advantage, restoring the lungs and air passages to their healthy state, and the thorax to its normal proportions; of this I shall say more in another

Our theory will uniformly apply even to facts, which at first may appear to oppose it. We may be asked why is consumption so prevalent among musicians who perform on wind instruments? Because they make several successive expirations to one inspiration. This is in direct opposition to the natural process of respiration, and also to the mechanical, as regulated by the respiratory tube, and therefore produces effects directly the reverse, contracting the chest and diminishing the pulmonary volume. On one occasion, Dr. Ramadge was consulted by the leader of a hand on behalf of himself and fellow musicians, as to the best method of counteracting the effects of this irregular breathing, and recommended that they should all take a long and quick run immediately after the close of their performances, or provide themselves with a tubular walking stick, constructed on his principle, and respire through it at proper intervals, This was followed by the best effects. Thus we find an objection as apparently against our theory constituting really a marked exemplification of its

Again, how many instances of consumption occur among females who habituate themselves to the use of very tight stays, corsets, &c.; an injurious practice against which medical men have long lifted up their warning voice to no purpose. The continement and stooping attitudes of countingtonses, manufactories, and various mechanical branches of trade, send thousands prematurely to the grave, and sow the seeds of death to be reaped by future generations. All these bad effects may be resolved into the simple principle I have kaid down,—contraction of the chest, and want of due pulmonary exercise.

The North American Indian, in the hamid atmosphere of his boundless forests, exposed with very imperfect coverings to the rigours of variable and inclement winters, almost uniformly exhibits symmetry of the chest, and a sound state of the habits of civilised nations he barns the practical history of the mahady, that desolutes the enlighment or gions we induled, and under which so many myriads pine as if

Cling to their couch, and sicken years away."

Use life from youth to age is one of vigilance and exertion, amidst the toils of the chase, or the per cent during the 18 years 1513-30.

alarms of war, and leaves no opportunity of sinking into a state of habitual inactivity. The child of nature, he inhales her own balmy breath, and expaniates freely amidst her woods and waters, happily a stranger to the permicious restraints we submit to, in obedience to the tyrannic caprices of fashion and projudice, or in the pursuit of pleasure, wealth, and power.

Discipritus.

ANNUAL REPORT OF THE REGISTRAR-GENERAL, 1823.

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This vastly-important volume, just issued, is now before us. We propose to make from it a few of the more interesting extracts:—

VARIATIONS OF ANNUAL MORTALITY. More Deaths were registered in the year ending the 30th of June, 1841, than in any preceding year; the number registered (355.622) having exceeded the deaths in the three previous years by 5.521, and 14,615, and 19,666 respectively. To judge accurately of the rate of mortality, the increase of the population must be taken into account; and we then find that the mortality, last year, slightly exceeded the mortality of the preceding year, and was nearly 6 per cent. (57) above that of the year 4838-39. The relative annual mortality per cent, as shown by the mortality of females, was 2.055 and 2.157, and 2.171; if a correction be made for the deaths not registered in the first year (1837-38) the mortality in that year will be found little less than that which prevailed, in 1840-1.

With reference to the increase or decrease of mortality in the several divisions of the kingdom, the mortality attained its maximum in 1839-10, throughout the North Western, York, and North-Midland divisions; whilst it increased slightly, but progressively, from 1838-39 to 1840-11, in the Western, South-Midland, Northern, Welsh, South Eastern and South Western divisions. The moctality was lowest in Essex, Suffolk and Norfolk, and in the metropolis, when it was highest in Cheshire and Laneashire (1839-10.) The mortality, I may remark, in that year was excessively high in the North-Western Division; but I have the satisfaction of stating, on the authority of the Quarterly Returns, that the decline observable in 1840-1, continued in 1842. The diseases causing the mortality will be stated in the Appendix. It may be mentioned here that scarlatina was epidemic in 1840, and committed great rayages in Laneashire. same disease has since been epidemic in the south

ern parts of the island. Aglance at the table will show that the mortality in different parts of the country has differed to an extent ranging from 1799 to 2670 annual deaths out of the same number (100,000) living, The mortality was above the average of England (2113) in the North-Western, Metropolitan, York, and North-Midland divisions; and below the average of England in the seven remaining divisions. The Metropolitan Division, with its dense city population, which is recruited partly by im-migration, can seareely be compared with the other ten divisions; the mortality is necessarily higher than it would be among the same population, scattered over a wider space, if equal precautions were taken to remove as well as to dilute the effluvial poisons generated around human habitations. The density of population in Laneschire, though much greater than in the rest of the kingdom, is incomparably less than the dinsity of the population in the metropolis; yet the mean moradity was higher in that county than the mortality of the metropolis during the three The mortality was nearly half as high again in the North-Western Division, as it was in the South-Western Division. It may make the fact

* We have no means of knowing what the average mortality absolutely was before the present system of Registration was introduced; but according to one of the best estimates (by Mr. Edmends) the annual mortality of 6 males was 205 per cent, during the 18 years 1813-30.

more striking to those who are unaccustomed to calculations of this kind, to state, that, if the mortality had been everywhere as high as in the North-Western Division, instead of 355,622 deaths, 440,363 would have occurred hast year; and that only 302,800 deaths would have been registered, if the mortality of the entire population had been as low as that observed in the south-western counties.

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PUBLIC MEALTH IN THE YEAR, 1840.

A comparison of the number of deaths registered in the four quarters of the corresponding years is exceedingly instructive.

 Regression of the control of the c

The increase bore principally on the summer and autumn months.

It will be observed that in 1840 the supposed causes of 351,757 deaths were stated; heaving 7,804 deaths, of which the causes were not assigned. It has been assumed, in calculating the mortality by each cause, that the causes of the 7,804 deaths, in which the causes were not stated, were the same as those of the 351,757 deaths in which the causes were specified.

The mortality by all causes was higher in 1840 than in 1838, and considerably bigher than in 1839. Our of 1,000,000 living in 1839, only 21,856 (sid); while in 1840, out of the some number biving, 21,856—and 1,022 more—perished. Upon referring to the deaths by different classes of causes, it will be perceived that 626 of the excess (1,022) arose in the epidemic class of diseases; the remaining excess being distributed over all the classes, except that of the violent deaths, which diminished somewhat in each of the two last years.

The deaths from small-peo fell from 16,268 in 1838, to 9,131 in 1839, and 10,434 in 1840, the deaths from typhus fell from 18,775 to 15,665 and 17,177. From both diseases the mortality was loss in 1840 than in 1838, but greater than in 1839, Hooping cough progressively declined from 9,107 deaths to 8,165 and to 6,132.

Scarlatina was the reigning epidemic of the year 1840. According to the theory of Sydenham, it would communicate its character to the acute diseases and constitute the medical constitution of the year.

The deaths from this severe epidemic were in the three years:—1838, 5,802; 1839, 10,325; 1840, 19,816.

And the deaths by scariatina, out of 1,000,000 living, were in the same years 393,683, 1,289, the epidemic was most destructive in the North-Western, North-Midland, York, Welsh, and Northern Divisions. In the North-Western Division (Lancashire, Cheshire), the annual mortality by scarlatina was 2.5 in 1,000; so that the mortality of children, who are the principal sufferers, must have been excessively high. The epidemic had not terminated, and we shall have in the next Report to trace its destructive course through another year, and in other parts.

The deaths by diarrhea, cholera, influenza, and ague, increased to a considerable extent: though not so as to assume the epidemic form, or to present anything very remarkable.

The deaths from hydrophobia in the tirree years were 21, 15, 42; and, therefore, not half so managing rops in 1840 as in 1838.

The mortality by the diseases of the Nervou-System was nearly the same in the three years, viz.; 000305, and 003255, and 003302. The nerality by ecphalitis and paralysis was slightly higher in 1810, than in the two preceding years.

The mortality by the diseases of the Respiratory Organs was, 6 in 1,000; or in each of the three years 006149, 005989, and 006043. The deaths ascribed to Consumption in each of the three years were 59,025, 59,559, and 59,923; and the mortality from this disease declined very slightly. About 4 in 1,000 persons died annually of Consumption 1,000 persons died annually of Consumptions.

sumption, and about one-tifth or one-sixth of the total deaths were by this disease,

The mortality of diseases of the Digestive Organ was 001307, 001373, and 001465. The

increa e was chiefly in Enteritis.

The mortality by diseases of the Urinary Organs was 000112, 000101, and 000110 in the three years. The deaths by Stone (and Gravel) were 320, 299, and 303; the mortality '000022, '000020, and 000020. About 1 in 50,000 persons die of stone annually. It will be interesting to see whether the mortality be reduced in future year. by the discoveries of surgery. The mortality by Diabetes is to that by Stone nearly as two to

The deaths in Childbed were 2.841, 2.945, and 2,989 in the three years. The mortality increased from '000190 to '000193, and '000195.' To about 187 children born alive, one mother died. The proportion of mothers who perish at this important period is unquestionably excessive; and must suggest to every humane person the inquiry whether the education of the nurses who attend the poor in labour, may not be improved?

The number of deaths ascribed to Rheumatism and to diseases of the joints was 962, and 1,170 in

If we except " Debility " under which head are included " premature births"-" Dropsy" was the most fatal of the diseases of " uncertain or variable The deaths ascribed to dropsy were 12,342, 12.251 and 13.261 in the three years: the annual rate of mortality 1000836, 1000810, and 1000683. It is scarcely necessary to add, that according to the present views of pathologists, Heart Disease, or Nephritis, would, in the majority of cases, be considered the primary affections. So difficult, nevertheless, appears to be the diagnosis practically, that nearly as many cases of simple " Dropsy are registered in the London Hospitals as out of doors in private practice.

EXTRACTS FROM FOREIGN JOURNALS.

From the Berbu Medicinische Zeitune, for the "Medic d Time .

GERMAN.-Chronic Case of Glander, transferred to the Human Subject, - (By Dr. KRIEG.) -The more evidence we have afforded, that the glanders, to which the horse and ass are subject, was long known to the Greeks as a dangerous, and even incurable disease; so much the more striking must be the fact, that in modern times only, men first turned their attention to the transference of the malady to the human subject, for human disease through glandered animals was in no period wanting. We can, although under other names, find more than one case described in the Ephemerides of the old physicians, which, although then treated as scorbutie, were, in fact, nothing else than glanders. The five cases observed, nearly together, in the Prussian Regt. of Gens-d'Armes, described by Henckel, belonged indubitably to this disease. Few physicians would have been so candid as was the brave and conscientions Henckel. "All these cases," he says, "disquiet me, and make me desirous to know how I shall properly denominate them, wherein 1 should place their cause, and what more should be practised in their treatment, to prevent death, if it be in any way possible." He pictured the disease as a Febris Irregularis, and, among other symptoms, perecived its malignity in the fetid transpiration and those "wonderful matastases, so suddenly arising; even within one hour, fluctuation was speedily perceived in those places, &c." He also adds, he has not vemarked that "this malignant essence became contagious," for in that quarter no one else became diseased. Bernhard Ritter has lately, in an excellent tract upon this subject, noticed the elder Osiander, as the first who made public (in 1803) a case of infection in a following night, and by accurate investigation, gave the case in a previous number.

man, from glanders. Since then, however, similar observations have accumulated from all sides, so that now, notwithstanding the repeated doubts raised, the not rare occurrence of its transference stands certain.

Where infection is caused through the inspiration of poisoned air from glandered animals, symptoms of pathognomonic value are ever disclosed in the course of the disease. And certainly the circumstance ought not to be overlooked, that it produces cases in which the disease can be prolonged for many months, without the phenomenon of reaction of the human system, raising itself to the form of that entirely peculiar typho-septic process, which hitherto has always put an end, at the same time, to the disease and to life. In my Inaugural Dissertation (Berlin, 1829), I have distinguished it by the name of "Typhus Maliodes." That this received name, following Bartels, now suits, not the entire disease, but only the last stage, is understood of itself. On the contrary, the including terms, "Morbus Mallearis," "Passio Mallodes" will answer for the entire form of the disease, much the same, whether their individual periods end within longer or shorter intervals, and whether the essential symptoms appear more drawn out from each other here, or there crowded together in shorter stadia. Bartels, however, is the only one, until now, who has assigned to Glanders its destined position in the Nosologie system, as a peculiar disease, not to be confounded with any other; whilst, e.g., Mason Good, and his famed commentator, Samuel Cooper, have not af all mentioned this disease, although they have near enough included it under "Erythema Anatomicum" in described cases of constitutional disease.

One case of long-continuing glander disease has been communicated by Wiggins. He had under his treatment the son of a butcher, et. 12, who was ten months ill of this disease, and died under the usual symptoms of this affection. A second case has occurred, only lately, to myself. I was requested to visit the postillion, Walter, who lay ill in D ---, about a mile from this place. I proceeded thither in company with Herr Department Veterinary Surgeon Korber, whom other business called there. I found Walter in agony. After proper examination, I pronounced to my companion, with great confidence, that the patient was dying from infection by the poison of the glanders. The right side of the neck was taken up by an enormous, dark, erysipelatous, hard swelling, upon which had arisen numerous pustules and bladders, of irregular forms, from the size of a pea, to that of a small walnut; the lesser, yellow and pale red; the larger, bluish green, all filled with a thin humour. (Jauche.) Similar swellings covered the left shoulder, the hips, the leg and thigh, the right ham, and upon all these had those bladders elevated themselves in numerous grades of development. The nostrils were dry; they had, nevertheless, before, poured out a profuse thin secretion. The tongue dry, incrusted with slime. Pulse and respiration showed already-commenced paralysis; the hands and feet were cool; the skin claiming; the exhalation from the patient not strikingly pencirating. Although he had been ill more than six mouths, yet only in the last ten days had he become so weak, that he could no more leave his bed, and, since then, his condition had visibly deteriorated. From the commencement of the disease, until three weeks before, he had been treated by Surgeon Durbock; since then, as his wife asserted, he had been without medical assistance. The mandied on the

I was convinced that, previously to his first sickness, he had repeatedly ground d glandered horses. Surgeon D., at my request, informed me of the course of the disease as ob erved by him, substantially as follow: Six monthpreviously, he had first seen the patient; for many weeks he had complained of great weakness, and drawing pains in the limber; he had, notwithstanding, performed his duties, till ac length he was quite unable, from pain and debility. He was now at times obliged to keep his bed; he had light fever, with gashie attacks; profuse morning sweats; and violent pains in the extremities, especially on the right side. Soon, rose-coloured and very sensible swellings arose on all his limbs, great and small, in which fluctuation greatly shewed itself. The abscesses were successively opened, evacuating a thick, not ill-smelling, pas; and were then generally well herled again in the course of some weeks. At the same time the condition of the patient, who had become very weak and emaciated, appeared in general to have bettered itself: his strength had markedly ine eased. Neverth less, gonty-like pains confinued, with intermitting violence, in all his limbs; the morning sweats also remained; and soon the at first rosy inflamed boils quickly elevated themselves in different places, yet, in a great measure, again discussed themselves. In the fifth month, the apparent amendment had completely ceased. The hitherto tolerable pains became manifestly more violent; the patient had strong fever, stitches in the breast, anxiety, and cough, and at length began to expectorate great quantities of matter. (Most probably, the peculiar suppuration of the diease had destroyed even the tissue of the lungs.) Later, when the difficult breathing had abated, the pus expectoration had nearly ceased, and his condition had acquired a more mild appearance. As the last act of his long sufferings, typhus fever, with gangrenous boils, suddenly developed itself under quick augmentation of the old pains in the extremities, in the neek, and shoulders. Unfortunately, various causes prevented my making the section: the results would have been, although in essentials not different from those known in such cases, -so far worthy of remark, as here the disease had had sufficient time to engrave its destroying traces in every organ, and in the organic system. Even in the case communicated by Wiggias, the section did not take place. One circumstance well deserves to be mentioned here. From the transerence of a poison from one species of animal, where it is in condition to develop itself, not barely through infection, but even spontaneously, to another which never spontaneously generates this poison,-the glanderis, in man, as it were, a bastard production. As such this appears, like other hybrid discases, to possess only a limited generation of the power of infection. So indeed even the vaccine will be transferred from man to man only by inoculation. So even is it more than probable that the accidental inoculation of the contagion of glanders, perhaps by a wound in the section of a man dying from this disease, would call forth a similar disease in a predisposed individual.* But no ease is known to me that persons who have attended such patients, have become ill through infection. In the above case, many members of the family had, in their turns, slept near the patient; even his wife lay in the same bed with him, during the whole of the last deadly stage, without apparent prejudice to her health.

^{*} A case of this kind absolutely did take place at Paris, under the cars of M. Boailland.

TO CORRESPONDENTS.

A case of personation has been placed under our notice. On the 24th January, Dr. Jenuthan Green, of Marthorough Street, had his attenti a called by a post letter, ill-written, and on shably paper, to" the interesting notice" of his back inserted in the bast number of a minor contemporary. The doctor thus kindly informed of what otherwise could never have reached his knowledge—heing a deal on of good society—was induerd to parchase, or at all events to consult, a copy. when much to his surprise, he discovered that the interesting critique was a low revsonal attack. In the sale of the journal, or attraction to it of notice, the plain object of the note-writer was evidently arswered. Int will our readers believe that to gain this petty end, our name as Editor of the " Medical Times assumed, coupled with a request (to give that assump-tion countenger) of a copy of Dr. J. Green's work. The note is in our possession, and if the Mr. Burgess whe, as writer on skin diseases, is interested in using the attenuated journal with which he is connected, in decrying a gentleman who has the largest practice in skin discuses of any medical man in London-be not the author of the despicable personal, not in any way connected with the attack that gave it high, he will tio us a favour in erabling us antheratively to say so. Once for all we never have, werer dos and never shall write to any author or publisher is respected books for

Mr. Houghton .- The week way frame for horses All Reagings—in a coming function and which is only used for professional purposes are endected in returns as to the property tax. Communicative and the nords of the act equally provide this.

I. N. A.—We shall be glad to receive the paper

M., Watts is informed that it is well understood that our Periscope of the week consists of condensations or extracts from other journals, a circumstance duly announced to all our renders. If here we use matter of any great importance we give it as a soperate or each, with the names of the different sources, but is an experimental proof short facts) we have a much space in publishing the history of an article. Laceresire lodging place in various foreign and English journals as the article itself often contained. We shale probably pay our monthly and quarterly contemporaries nire notice both critical and estractive than we have killer to done, and the Chemist among others,

A Student - Tre should recommend Dr. Walsla's

recent work,
M. N.—Devotus—Grycosis—" All Haif"—
Constant Reader, Buth—Mercator—declined.

Our Lectures by Dr. Scoffern on Chemistry, and Professor Series on Organizeny, with the case of Spina Bipda by Dr. Binns in our next number

THE MEDICAL TIMES.

SATURDAY, FEBRUARY 18, 1843.

treed laws make good subjects .- OLD SAW

THE Bill introduced by Mr. French, for the regulation and support of Irish Medical Charities, which received its second reading on Monday evening, now lies before us. Antecedent to any expression of our opinion on its merits, we shall present our readers with a faithful abstract of its contents.

The first clause repeals that portion of the Irish Poor-Law Bill which anthorizes the Poor-Law Commissioners to scrutinize and partially direct the administration of hospitals or infirmaries supported, in part, by Grand Jury presentments, or Parliamentary grants. In the second, the Lord Lieutenant is authorized to appoint, duringpleasure, a certain number of persons, being not less than [f/rc], of whom a certain number are to be "physicians or surgeons residing in Ireland, and who shall have practised as such, not less than ten years previously," to whom shall be added the two Presidents of the Irish Medical and Surgical Colleges, and the Governor of the Dublin Apothecaries' Hall, who, collectively, are to form the Medical Charities' Board, and are to "act under such regulations as the Lord Lieutenant shall from time to time think fit to prescribe." These new Commissioners are to have no salary, nor other kind of remuneration.

The next clause refers to the formation of an office, appointment of secretary, clerks, &c .. - enacting, further, that the meetings of Commissioners shall be fixed by the Lord Lieutenant, and that four members shall form a quorum. The Commissioners are then authorized and required to demand accurate statements from all persons in whom any State Charity may be vested, on every point concerning it, and to "issue any order they may think proper, for enforcing obedience to the statutes, charters, &c., governing any such Charity." By to enquire into all charities founded on bequests, to examine into breach of trust and mal-administration in such cases, and they are required to present the results to her Majestv, with such suggestions as they may think most serviceable for the restitution of misapplied funds, or the prevention of further misapplication.

The next clause requires public officers to give copies of public records, or extracts. gratis, on the order of one Commissioner: and, by the following, the Commissioners are instructed to send in to the Lord Lieutenant, as early as possible, a report upon the state of disease, and the conditions and circumstances of every medical eleemosynary institution in Ireland; and to furnish, half-yearly, the statistics of the immates. The treasurer, also, of each institution is to send to the Board a yearly statement of its funds, and mode of application. By the 9th Clause, the Commissioners are empowered, with consent of the Lord Lieutenant, to make, alter, or revoke, at pleasure, orders for the medical economy and management of dispensaries and feverhospitals. The consent of the Lord Lieutenant is to be attested by warrant under his hand, transmitted by his chief or under secretary to the Commissioners. The Lord Lientenant, however, can revoke or suspend all such orders at pleasure, [11] The Commissioners are, tipso facto, to be members of the "General Board of Health for Ireland," and [12] are to have the same powers, in respect to discharge of their duties, as "the Commissioners for auditing the Public Accounts." They are, however, like the Lord Lieutenant, [43] to have no power to interfere in individual cases of medical relief. [44] The orders of the Commissioners ars to be scaled with the special scal of the Board, which seal is to prove itself. All the orders published [15] are to be laid before Parliament within the first week of its sitting.

By Clause 16, the Lord Lieutenant is empowered to appoint, during pleasure, any number of persons not exceeding [four], being physicians or surgeons, practising as such at least seven years, as "Inspectors of Medical Charities," to act under the direction of the Commissioners; and these [17] are in no way to be connected with any public medical institution, or school, or prison-or to sell drugs-or to practice -or to be inspectors of anatomy -or to derive, in any way, any emolument from their special duties, as Inspectors of Charities, save their regular salary. (This salary is said to be "hereinbefore provided," but is "hercinbefore" altogether omitted, even in name.) The Inspectors [18] are to use the office, and be assisted by the clerks of the Commissioners; and [19] are to examine into the state of every medical charitable institution at least once a-year, and to prepare exact reports for the Commissioners. The 20th Clause compels treasurers, &c., of infirmaries, to pay fivepence in every pound received, to the Commissioners, to pay for the working of Clause 5, the Commissioners are empowered | the present Act, which fund can only be paid out on orders signed by three Commissioners, and counter-signed by the Secretary. The Inspectors [22] are to have [£600] per amum, with their travelling expenses; but the whole expense for working the Act is not to exceed [£1,600] per annum. The Commissioners, by the next clause [33], are ordered, when so required by [twelve] or more payers to grand-jury cess, to inquire into the extent of medical relief in any district, and to give a report thereon to the Lord Lieutenant, who is then [21 and 25] empowered to create a dispensary or fever-hospital district, of the extent suggested as required. The grand-jury is required to present off the said district the sum of money necessary towards the support of such dispensary or fever-hospital. If the district, however, lie in two counties, or more, the respective grand-juries are to present the proportionate portion fixed by the Commissioners, to the secretary of each grand-jury, [] days previous to each assizes. Of all such institutions, so appointed, [27] all unpaid justices of the peace, with the principal minister of each religious denomination in the district, are to be ex-officio Governors, to whom, [28] if not amounting to shall be added as many of the highest cess pavers in the district as will supply the deficiency. [29 and 30] Donors of [£20] whether resident or not resident, as, also, annual subscribers of C2 and apwards, are to be Governors-without votes, however, in the election of officers, unless after 12 months' Governorship. By Clause 31, the Governors are made bodies-corporate, subject to the Lord Lieutenant; and, as such, property will vest in them, &c. Clause 32 refers to the times of meeting, and the number of Governors required to form a quorum-points unfixed, except [33] that no one Governor can do anything in management, &c., except at a meeting of Governors. [34] The Governor's non-quali-

^{*} The words in italies, and brackets, are to be decided on specially in committee.

fications are not to vitiate proceedings in which other Governors have concurred. [35] No medical officer is to be elected, save under the warrant of the Lord Lieutenant; and the Commissioners are to define the several duties of such officers-their " places and limits,"-and regulate their amount of salaries, and mode and time of payment. [36] The physician must be a member or licentiate of King and Queen's College of Physicians, Ireland, or of some other College or University in Great Britain and Ircland, duly authorized to grant licenses. &c. [37] The surgeon is to be a member of the English, Irish, or Scotch College of Surgeons; or have a surgical degree or diploma from some College, University, or body in Great Britain and Ireland, duly authorized by charter or statute. [38] The apothecary must be a licentiate of the Dublin or London Apothecaries' Society; and all medical candidates [39] must have their legal (?) qualifications first attested by the Commissioners, before being eligible. [40] The Lord Lieutenant may, however, require in cach candidate the double or triplicate qualification, including a certificate for midwifery. [11] The mode of election of non-medical officers, and their qualifications, are similarly arranged. [42] Where the Governors do not cleet within a month of the conge d'elire, the Lord Lieutenant may appoint an officer.

By Clause 13, the Lord Lieutenant is empowered to remove any medical officer on the Commissioners' application, or upon application of [four] or more Governors, supported by whatever investigation the Lord Lieutenant may think proper.

[44] The Governors have power themselves to remove any officer not medical. [45] Register Books are to be kept by the medical officer, and [46] half yearly returns of accounts are to be sent to the Commissioners by the grand-juries. [17] Paid officers furnishing to inmates for profit, medicines, furniture, &c., or concerned in any contract relating thereto, are to forfeit [£20] with full cost of suit to any party sueing, or if caught [48] embezzling to pay [£10] for the offence, and to restore treble the amount of embezzlement. [49] Disobedience to the Lord Lieutenant's orders entails a [40s.] penalty for the first offence, and of [£5] for the second offence, and all penalties [50 and 51] are to be recovered summarily on an oral hearing, and conviction before one or more magistrates, the forfeiture being at once levied by distress if necessary, or in default of goods by imprisonment. The remaining clauses refer but to appeals, payment of costs, and latitude of interpretation.

WE proceed to conclude our description of the state of our profession in Germany, by brief statements of the Medical Govern-MENTS OF WURTEMBURG AND BADEN.

In Wurtemburg, there are two grades, and five divisions, of medical men: that is, we have, first, Doetors of Medicine only, with Doctors in Medicine and Surgery;

and, secondly, three classes of Surgeous, known as first, second, and third. The Doctors' studies are commenced with proving paternal permission, and preliminary education; they extend through three years, one of which must be spent at the Tubingen University. The candidate follows whatever studies he pleases, and as he pleases-and the half-yearly examiuations, are matters of mere choice. A verbal examination, called "rigorous," and which is twice sustained, if the diploma is for the double qualification—is followed by a thesis, the positions in which are maintained by the candidate against the objections of the Professors. The Doctorship is now conferred, but the liberty of using it in practice is only purchased by shewing certificates of having attended, for a twelvemonth, clinical studies in some hospital of importance, or the practice of some distinguished practitioner, as assistant -and undergoing the State examination, which is long, and extremely searching, requiring practical proof of high capabilities in every part of the domain of Medicine. Doctors of Medicine are inhibited, under severe penalties, eases of Surgery and Mid-

The Surgeons of the first class write no thesis, and undergo but the State examination. In other respects, their studies are followed in the same way as the Doctors'. Their medical education, however, costs but about 72 florins. The lower divisions need no further description.

In Baden, we have, first, Physicians, who are examined during eight days, both orally and in writing, and who have their characters attested as highly moral; 2dly, Surgeons, who prove preliminary education, and are examined during 5 days as to their competency; 3dly, Accoucheurs, being Physicians or Surgeons who have studied Midwifery especially, during six months; 4thly, Assistant-Surgeons, whose principal requisitions are, four years' practice with a master, and the composition of an article before his examiners, as a proof of his ability to write.

Curu or Hoarseness.—The hoarseness proceeding from laryngeal and tracheal inflammation, as well as that of an idiopathic kind caused by long speaking or singing, or that which supervenes during fevers of a typhoid type, has been treated successfully by the external application of croton oil. Dr. Trusen, of Posen, employs friction with from five to ten drops of the oil over the larger, but over only a small area, as the pustular eruption it causes has a great tendency to spread, particularly in persons with an irritable spine, for whom it ought to be used mixed with olive oil.

CEMENTS FOR CHINA, &c.—Mr. Rowland reconnuends the following:—6. Pulv. Mastic.—Acaciae, aa. ji.—Cretæ. ppt. Jij. Misec. This should be kept in powder for use, and when required, it should be made into a stiff paste with a little water. This is a very hard cement, and well adapted for china, glass, &c. India Rubber and Shellae, equal quantities of each, dissolved in naphtha, form a cement, insoluble in boiling water, and on this account invaluable for many purposes.

STATE REPORT UPON THE TREAT-MENT OF CHRONIC DISEASES BY COLD WATER.

By Dr. GIBERT, of the Hospital St. Louis, Patis. (Extracted from the Gazette des Hospitaux.)

In consequence of the numerous abuses which had crept into the treatment of the diseases of women, I had for several years directed my attention towards the employment of sedative astringent applications, and especially cold water with a cooling regimen, in the treatment of those nervous affections which are often combined with lencorrheal discharge, and eongestion of the neck of the womb. I published an especial article upon these affections, founded principally upon the observations which I had collected at the Hopital de Lourciue, and I prevailed upon the management to provide an apparatus for the administration of the cold water douche. In 1840, on reviewing a work by Dr. Bigel, on the treatment of diseases by the cold water system, I penned the following observations. "This is a little book containing neither detailed observations on disease, nor accurate diagnostic remarks, which does not disclose the result of post-morten examinations, nor of arithmetical deduction nor anything, in a word, which constitutes the body and substance of most modern works. But still this is a book containing more good and sound medicine than it is possible to collect in most of the large works published at Paris during the last twenty years. At Graeffenberg, on the summit of a high mountain, guided by the aid alone of experience and of good sense, a peasant of Austrian Silesia, Priessnitz, performs cures which have aroused the attention of all Europe. Cold water, either as drink, or external applications, is the only medicine employed by Priessnitz; such is the simple means by which he succeeds in curing a host of diseases which have resisted the ordinary remedies. "I leave behind me," said a celebrated man when dying, "two grand physicians, diet and water." Priessuitz has availed himself of this heritage. In the same year, when appointed to St. Louis, I resumed the course of instruction so successfully commenced in this hospital by Professor Alibert, and I then took the opportunity of applying the cold water treatment publicly to diseases of the skin. This method rests, as we know, upon two essential points:—Ist. The use of cold water either in drink, in the form of donches, and in general or partial baths, as lavements, injections, &c. 2nd. The natural transpiration obtained and provoked by means of swathing the body in a covering of wool. Sometimes this covering is applied naked upon the skin; at other times, the body is previously enveloped with a sheet soaked in water. During the whole time that the swathing continues, we give the patient cold water to druk in repeated doses, to allay the thirst, moderate the heat, favour perspiration, and replace the liquid exhaled from the body. In patients, affected principally with dry cutaneous affections, as psoriusis and iethyosa, when subjected to this operation, it was some time before perspiration showed itself; two, three, four, and even five hours elapsing before this result took place. After allowing them to perspire for a variable time, from half an hour to an hour or more, according to the ease, they were carried into the bath. They were then unswathed, and frictions or washings of cold water applied to the body; a cold douche was likewise showered upon them from an elevated place, or they were plunged into a cold bath. These experiments were not continued from beyond two to five minutes; after which the patient

dried himself, dressed, and took a little exer- ROYAL MEDICO-BOTANICAL SOCIETY. ci.e. Several subjects attacked with lemu inveterata, and two little girls affected with congenital icthyosa, have been subjected to this kind of treatment. All have experienced from it a remarkable amelioration; some have appeaced completely cured. This result is so much more remarkable, as it concerns affections usually rebellious to all our modes of treatment. If the hydropathic method does not appear applicable to all eases nor to all subjects, if even it may cause great inconveniences when it is not employed with due prudence; if lastly, and above all, our experiments are still too few and too incomplete to enable us to deduce any rigorous conclusions; we may, at least, affirm at the present moment that no other treatment appears so proper to restore to the skin that state of smoothness, of softness, and of permeability, which is their natural condition, and the re-establishment of which is so difficult to be obtained by our usual methods in subjects affected with diseases of the skin.

Among the obstacles to this method, the most powerful has been the want of co-operation of Dr. Wertheim, who after having studied the method at Graeffenberg, had proposed its adoption at the hospital St. Louis, and had, for several months, zealously superintended its application Discouraged by the difficulties which he had to encounter, Dr. Wertheim joined myself in demanding from the administration of the hospital, certain ameliorations. While waiting for these improvements, we have thought it our duty to suspend our experiments. I am, therefore, still unable to give an ab olute opinion upon the method of Priessnitz. With respect to the statistics requested by the council, I am able to give precise data upon : even patients only, of whom two (prurigo and psoriasis) have been completely cured: two others (icthyou) have appeared enred, but had a relapse at the end of a few months; two more (psoriasis) have experienced a most remarkable improvement, without arriving at a perfect cure; lastly, the seventh was obliged to renounce the treatment which appeared to have an injurious influence upon the state of the chest. Excepting this last case, in all the patients whom we thus treated, (about twelve in number) besides the effects produced on the skin, a most marked improvement was brought about in the general health.

The following are the conclusions at which 1 have arrived on this subject.-1st. That the treatment of chronic diseases by cold water and a cooling regimen, (following more or less implicitly the practices employed at Graeffenberg,) has produced advantageous results. 2nd. That when it is directed with suitable care, and attended by favourable conditions, it may, without presenting my danger to the patient, produce therapeutic effects, which has e not been obtained from the ordinary methods. 3rd, Lastly, that in diseases of the skin, in particular, it may alone induce a cure, or ar least concur in rendering it more perfect, when this treatment is used as an auxiliary to the other curative methods.

RUPTURE OF TRACHEA. In a child, fifteen months of age, labouring under an attack of bronchitis, after a few efforts to cough, an emphysematous tumour suddenly appeared in front of the acek and upper part of the chest. A small incision was made and gave exit to air. The child died on the second day; and on examining the body it was found that the trachea was lacerated to the extent of half an the new salts of iron, from Mr. Bullock, of inch, just above the first ring.

LARL STANHOPL, PRESIDENT, IN THE CHAIR.

Dr. Herdeon read a Poper on the Artemicia Absinthing, and its Preparations, of which the following is an Abstract :-

The Artemisia Absinthium, or common wormwood, has been held in estimation as a medicinal plant, from the earliest period of medicobotanical history; but at the present time it is very little employed in the regular medical practice of this country, although it is extensively used on the continent. All writers agree in a-cribing to it tonic properties; but some object to it on account of its unpleasant flavour, and say that, in practice, the more agreeable bitters should be preferred. It is said to render the milk of nurses, who take it, so bitter, that the child is affected by it. Numerous medicinal virtues have been attributed to it, the chief of which are, antiseptic, anthelmintic, deobstruent, tonic and stomachic. It has been employed with success in jaundice. dropsy, gont, worms, dyspepsia, intermittent fevers, and various kinds of cachectic diseases, in the forms of powder, extract, conserve, tineture, wine, distilled water, essential oil, The doses mentioned by writers on materia medica seem too large, and likely to be offensive to the stomach. The following infusion and tineture have been employed by the author of this paper, with satisfaction :-INFUSION OF WORMWOOD. Take of the dried herb, free from the stalk, half a drachin, boiling water, ten ounces; macerate for an hour, and strain. The dose, an ounce and a half three times a-day.-TINCTURE or WORMwoop. Take of the dried herb, free from the stalk, two ounces; rectified spirits, sixteen ounces. M cerate for twelve days, and strain. Dose, from ten to fifteen minims, in an ounce and a half of water, three times a day. This tincture has a beautiful green colour, and possesses the full aroma of the plant, as well as its bitter flavour. This tincture is the most pleasant preparation of the plant, and is an elegant and excellent stomachie.

S me Remarks or the Sweet Acorns of Pert 202, by William Lukio, Esq., were then read:

The sweet acorns are the finit of the Dynheiras, the Quercus llex of Linnaus. It is a tall forest tree, very frequent in the forests south of the Tagus, but rarely found north of that river. It is extensively planted in the oak-woods of the Alemtego, for the hogs, which are driven in large herds into the woods. to fatten on the fruit.

There are two other trees, quite distinct in character, which produce sweet acorns, and are found in the same woods, but are not frequent. —1. Quereus Rotumdifolia, of Lamarck.—2. Quereus Bulleta, of Desfontaines. Broteia, in his Flora Lusitania, considers both these as varieties of the former. They are smaller trees; all three are evergreen; and the acorns so similar, that it is difficult to distinguish between them without seeing the leaves. These acorns, roasted like chesnuts, are served they are much eaten by the peasants, who eat by referring to a very humorous letter in "Don Quixote," in which Cervantes represents Theresa Panza as sending a peck of ballor is to the Duchess, in acknowledgment of had met with at the eastle.

Among the presents announced during the meeting, were some very fine specimens of the Conduit-street.

CASE OF HYDROPHOBIA.

Ly William Henry Booth, M.R.t ,S., West Ret, Sheffield,

The subject of the following remarks, is a case of hydrophobia, with which I became acquainted on the night of Thursday, January 26th, 1843. The patient was a boy, of the name of Jahez Robinson, aged seven years and a half. As he was returning from school on the morning of the 10th of December, 1842, crossing a field leading to his home, a small terrier dog, belonging to a neighbour, attacked him, and bit him in several parts of his body, viz., the arms, legs, and face. The boy attempted to take refuge in some water, which was near, into which the dog followed him. The animal there continued its attack, until a man, who was working by and saw the dog have the boy down upon the sand-bank, near the water, immediately approached the spot, with a stick in one hand and a stone in the other. The dog immediately ran off, recrossing the water. boy was bleeding very profusely from the wounds inflicted. He was immediately conveyed to the Sheffield General Infirmary, where, I understand from Mr. Law, house surgeon to the establishment, the actual cantery was applied to the parts bitten. He remained a patient, under the care of Wilson Overend, Esq., and Mr. Law, until Friday, January 20th, 1844, when he was made an out patient. After he got home he complained of sickness, and appeared very listless and poorly. On Timrsday morning, January 26th, the father applied to Mr. Law, at the Infirmary, stating that his son was very poorly, when Mr. Law prescribed (wo prowders considering him to be suffering from fever, the effect of cold. On the night of Thursday, January 26th, the father came to me, and desired that I would go to Slack Work, near Owlerton, to see his son, who he stated was affected in a very curious manner. He also stated that his boy had been bitten six weeks and five days, previously, by a dog, and that he had shortness of breathing and sohbing. I immediately went, along with a professional friend, and found him suffering from all the symptoms of that dreaded malady hydrophobia, for he evinced a dread of fluids, and great difficulty in swallowing the same. He was very much excited by currents of air, he complained severely as if suffering a sense of suffication, when any person was moving quickly about him, and when the door was open, all which tended to the disturbing of the functions of respiration; his pulse was from 110 to 112, quick and full. Tongue dry and furred. Complained of great thirst. These symptoms, up to the time of his death, which was at halfpast seven on the following morning, Uriday January 27th, increased, and he became very violent. He did not sleep from early on Thursday morning up to his death, although I prescribed opiates in full doses. All the time of his suffering, he appeared much disturbed by strangers, yet complained of no pain in any organ except the front part of the head, and that only occasionally. He was not able to put out his fongue, it was drawn to the left side of up with the dessert, in Spain and Portugal: the mouth. He was frequently sick, and occasionally vomited saliva. He was sensible up then roasted. That the enstom of eating to a short time before his death, but appeared these accounts is of some antiquity, may be seen to die in a paroxysm. Inspection of the body 30 hours of er death. -

There was considerable evidence of the box having been stout and healthy previous to the fatal disaster. Decomposition had not taken the hespitable reception her husband, Sancho, place on any part of the body. The number of cicatrices amounted from fourteen to sixteen, the largest being upon the calf of the left log and right arm.

> Cerebrum, - Upon removing the calvarium, there was a considerable discharge of dark

red blood, which I suppose must have ed from some lacerated veins. The mater, as well as the other memes of the brain was very vascular, and reongested with dark blood. The surface be brain was very vascular. There were aumierous deposits of lymph. Upon slieato the substance of the brain, there was nucuse number of bloody points. Ventricontained no fluid. Choroid plexus na-

rebellum.—The cerebellum, medulla obita, and about one and a half inch of the illa spinalis, were removed, and appeared very vascular, and much congested, but more so than the cerebrum. The pons ii was very vascular, the structure of the sellum rather softened.

trynr.—Larynx removed together with the ynx. The lining membrane of the larynx oharyux were much congested, or inflamed, there appeared some constriction about lottis.

iorax.—Heart natural. Lung presented a dark appearance, and when cut into, aped to contain a large quantity of blood.

domen.—Liver rather paler than natural, bladder distended with bile. Stomach resophagus of a natural appearance, the er being quite empty. Intestines natural ppearance. Kidneys healthy. acted.

This is the second case which has fallen r my care within a very few weeks.

LONDON HOSPITAL.

EMARKABLE CASE OF CONSTIPATION.

B. aged 10, was a patient of Dr. Cobb. story.—He had always been a weak y child, and had been from infancy peculiable to a torpid condition of the bowels, ; having an evacuation without the use of itives or enemata,

year ago the constipation lasted for 9 s, but finally yielded to the sulphate of

iesia in ounce doses.

evious to his admission into the hospital, eks had elapsed without his having a evacuation. His abdom n was very l, and resonant on percussion along the e of the colon. His constitutional sympwere by no means so severe as might been anticipated.

emata of soap and water, combined occally with turpentine, were ordered; the matter within reach being first removed cans of a director; it was as hard as a . The injections were readily returned, ing with them occasionally scybalæ of t an inch in diameter,

. Cobb suspecting that organic disease ed, refrained from active treatment, emng merely small doses of magnes, sulph, nuel roller was also applied to the abdobut was soon obliged to be removed as it d a good deal of pain. Warm baths were ionally used, but no benefit resulted; for being 10 weeks in the hospital, and 17 s without any evacuation, he died in great

spection. — Body externally emaciated: men much distended, and its parietes very nated. On opening into its eavity, no tum nor small intestine could be seen, being pletely hid from view by the enormously ged state of the colon.

ie sigmoid flexure was 16½ inches in cirerence; the rest of the colon much the size, while the execum was greater by ! inch.

actually given way, such was the degree of distension it had been subjected to.

On being emptied of their contents, 13 quarts of dark, soft, foculent matter were collected in pails. All the other viscera were

Нувкосыль.

James Robinson, aged 65, was admitted under Mr. Andrews in September, 1842, with a contused leg. He was also found to have an enormous hydrocele, reaching halfway to his knees; he says he has had it for 10 years, but finding little inconvenience from it, has never had anything done for it. He now consents to have the fluid evacuated. Mr. Wildash, dresser, performed the operation; 52 ounces of a clear yellowish fluid were collected. Some months ago, I saw Mr. Luke tap a

hydrocele for a young man, set, 20; thirty-two ounces of third were collected!

I mention these cases, only, because the amount of fluid evacuated in both appears to nie unusually large.

HUNTERIAN ORATION.

Delivered at the Royal College of Ingeom , leib. 11 by J. M. ARNOTT, Esq. Sc.

THE pleasant duty which has devolved upon me is not unmingled with sorrow. If it is instructive to dwell upon the merits of that great name which has to day assembled us together—if it is agreeable to trace the steps of genins, forcing its way from atter obliviou into the meridian blaze of fame, until it has become impossible to discuss the science of surgery without prenomeing the name of John Hunter—it is with regret that we must recount the losses we have recently sustained the gaps not easily filled up, which death has made in our ranks.

At our list anniversary we had to deplore the loss of Sir Astley Cooper, a man for whom scarcely any panegyric can be too strone, since his fame as a practical surgeon was limited only by the bonndaries of the civilised world. This year we have to lament the decease of one whose merits were qually great, but in a different domain of knowledge—Sir Charles Bell, whose transcendant reputation as a physiologist has, with the mass at least, eclipsed his eminent deserts as a surgeon. Sir Charles Bell, though not a pupil, revered the memory of his great predecessor, for if the phrase damnant qued non intelligant aptly describes the judgment of the multitude, it is equally true that it requires high, and, perhaps, kindred talent, to estimate genius at its full worth

Sir Charles Bell was born in 1775, and after studying some years at the High School of Edinbrigh, he began the study of anatomy under his brother John. That brother, twelve years older than himself, was already in high repute both as a surgeon and as a lecturer. The instructions of such a teacher would rarely have been without profit by an ordinary pupil, and their effect on Charles Bell was the publication in his 22d year of the first volume of the system of Dissections, a work marked by his characteristic originality. At an early age he was appointed surgeon to the Royal Infirmary; but the feuds which at that time distracted the profession in Edydnigh as well as in other places, induced him to try his chance in the metropolis of the world, and Mr. Bell came to London in 1806. The rest of his career is well known to you-at any rate it is unnecessary to dwell on all the professorships which he held, or the other marks of public distinction which were heaped upon him. I will content myself with touching upon a few of the more prominent parts of his genius and character.

As a surgeon, Sir C. Bell ranks high, if not the first, in the very first line. His letters on the diseases of the urethra, his surgical observations, and other works, show how deeply he had studied, and how diligently he had practised the art which he professed. His dexterity, and his coolness as an one or two places the peritoneum had operator, were remarkable, yet he went to operations with the reluctance of one who has to face

an massoidable evil, in this report re-embling Himter, and many other first-rate surgeons. Like Cheseldon, who is said always to have turned pale when about to cut for the stone, Bell' cheek was often seen to blanch as he was proceeding to operation performed with the utmost self-possession and skill. As the fruits of the zeal with which Mr. Bell cultivated surgery, I may instance hishurrying to Haslar after the Battle of Cormon, and to Waterloo after that of the 18th of June, in order to study gun-shot wounds. Still more eminent was he as a teacher of anntomy, and in the lecture room he shone almost without a rival; his view . were nearly all solid, and always ingenious, while his manner enchained the attention of his audience. Dull, indeed, must have been the pupil who could have slumbered when Sir Charles Bell was in the professional chair. In his leands dry bones lived again, his imagination clothing then with the texture which had once invested them. A muscle was no longer a mere bundle of fibres, rising here and inserted there; it was a guide to the surgeons knife in some important operation, or kindling with his own fire, betrayed by the anatomy of its expression the emotion that was enclosed within. The flaceid artecy on the table spirited forth it. crimson stream, and demanded the arreating hand of the skilful surgeon. He made descriptive anatomy at once interesting and instructive to his pupils, and taught them to rest more sarely upon it as a guide to the healing art, and though his inpressive tones, which gave such effect to his teachings, have passed from amongst no yet his fame will still live in the affections of his contemporavies, and he will be remembered by posterity as the discoverer of the varied functions of the nervous system.

Let me now be permitted to make an observation or two on the opinions of physiologists that have been given out on this subject, both before and since the publication of Sir Churles Bell's works. It is, now, generally admitted that the anterior nerves possess the power of controlling motion, while the posterior have the power of governing sensation. It had formerly been thought that each spinal nerve possessed in common the power of ruling both motion and sensation, and in some cases additional functions were attributed to it. This may be called the popular theory. Yet oc-casional glimpses of the truth were in a manner forced upon reflective physiologists. For the ordinary theory was obviously insufficient to explain why sensation remains in a paralytic limb when the power of motion is lost, and why, on the other hand, motion survives feeling in cases of another

But although it had been supposed by some that the nerves of motion were distinct from those of sensation, no progress had been made in pointing out the principle in the anatomy on which it depends that one nerve communicate sensation, another motion; and the singularly original remarks of John Hunter, in his paper on the nerves of the organs of smell had fallen unproductive-they had not met with a congenial soil.

At an early period the intricacy, multiplicity of arrangement, and distribution of the nerves, had engaged the eager attention of Sir Charles Bell, and I have it from one who so far back as the year 1806, had repeatedly seen him rise from the contemplation of the subject with the exclamation,-"I must make something out of these nerves;" and already, in 1807, he had got a glimpse of the principles of his subsequent researches, as the extracts which I am about to read will shew. from letters addressed by Sir Charles Bell to his brother George Joseph Bell, then at the Scotch bar, and now Professor of Law in the University of Edinburgh. Fortunately there letters were written before the use of envelopes, and the first letter from which I quote, bears the Edinburgh and London post mark of December, 1807. Mr. Arnott here read the letter. In another, post mark also, March 1809, Sir Charles, then Mr. Bell, says, "that he has some idea of having a room live or six miles from town, and there prosecute his enquiries on the nervous system -that which is to make me, 1 am convinced." This may be called the second sight of genius.

At length in an essay entitled Idea of a New

Anatomy of the Brain, printed in 1811, Sir Charles Bell developed some of the principles which were destined to exercise so great an influence on the

theory of the nervous system.

Having called attention to the prevailing doctrine of the anatomical school, that the whole brain is a common reservoir, and that the mind, by the same nerve which conveys sensations, sends out the mandates of the will to the moving power; we proceed to state in our opinion that the parts of the cerebrum have different functions, and that the nerves which we trace in the body are not single nerves possessing various powers, but bundles of different nerves, whose filaments are united for the convenience of distribution, but which are as distinct in office as they are in origin from the brain. He re-called attention to the fact of the spinal marrow being divided into an anterior and posterior fasciculus. We proceed to relate how he was led thereby to make experiments, of which he describes the results on the anterior and posterior columns of the spinal marrow, and on the anterior and posterior roots of the spinal nerves, and how he came to the conclusions, that every part possessing a double function, obtained that by having a double root.

Adhering to the important principle thus clearly laid down. Bell next directed his inquiries to the facial nerves, and aided by his indefatigable pupil and coadjutor, Mr. John Shaw, instituted experiments to assist him in determining their functions, more especially those of the portio dura of the 7th, and of the 5th pair. And happily he did so, for without the fortunate circumstance, that in certain parts of the body, especially on the face, the nerves of sensation and motion are distinct throughout their whole course, his great discovery could never have been clearly established.

The results were communicated to the Royal Society in a paper read before that body in 1821, and afterwards succeeded by others. Notwithstanding the novel and important matter which it contained, the "idea of a new anatomy of the brain" failed to attract attention. Not so the first paper, which appeared in the philosophical transactions. His views and opinions were now questioned, doubted, denied; then a certain amount of truth allowed to them-and, ultimately the real and substantial credit of a patient, laborious, and original enquiry was attempted to be wrested from him and attributed to others whose single merit in the part, at least of physiology, consisted in their adoption of that key which Bell had invented. fashioned, and shewn how to use-a key without which the secrets of the nervous system, so far as they are now known, had probably yet remained concealed.

In estimating Bell's claims as a physiologist, we are not called upon to regard these memoirs on the nervous system as complete and perfect. Along with all that is distinct and precise, we may allow that there are some allegations not quite specific; allegations which a mind more severely disciplined might not have hazarded. We may grant that the function of the posterior roots of the spinal nerves were therein suggested, rather than positively stated. We may acknowledge, as he himself did acknowledge, that he misinterpreted an experiment in his first attempt at proving that which he afterwards did prove through Mr. John Shaw, that the fifth nerve is a nerve of motion, as well as sensation; and we may agree in receiving with doubt, or at least, without conviction, as not yet proved, his views with respect to certain nerves being superadded in the higher class of a vertebrate animal with a distinct tract or column in the brain and spinal marrow, for the purpose of respiration.

But after all these acknowledgements, there remains to him, clearly and unequivocally, the merit of having first shewn and established, that, in investigating the functions of the nervous system, we must direct our attention to the roots, and not to the trunk, of the nervo.

That the nervous trunk, conveying motion and sensation, consists of two distinct sets of filaments in the same sheath.

That the filaments for motion form a distinct root from those for sensation,—and that the anterior large books of sketches to the spinal nerves are for motion, leaving by numerous sketches.

it to be inferred that the posterior were for sensation.

That the portio dura was a nerve of motion; and the fifth, a nerve both of sensation and motion.

And, lastly, of having been the first who, dissatisfied with the observation and study of the mere form of the various parts of the nervous system, applied the method of experiment to aid him in determining their functions. In a word, there belongs to Bell the great dis-

In a word, there belongs to Bell the great discovery—the greatest in the physiology of the nervous system for twenty centuries—that distinct portions of that system are appropriated to the

exercise of different functions.

Very valuable practical precepts were immediately drawn and applied by Sir C. Bell and Mr. J. Shaw, from these discoveries. Perhaps, the most important was, the distinction of a local nervous affection from that which depends on discase of the brain. I will not detain you with the recital of the cases of this kind, which, since the introduction of this new principle in the recognition and diagnosis of nervous diseases, have been accumulated of late years in the records of medicine. This doctrine, however, and the consequences which ignorance of it leads to, is illustrated by a remarkable ancedote, in a work where we do not usually look for physiological

instruction; and, as the story is little known, I

will take the liberty of narrating it.

A physician in Paris, on visiting a case, found an Λ bbé playing at eards in the patient's chamber. Struck by the unfavourable aspect of the Abbe' face, he informed him that he had not a moment to lose, but must be carried home immediately. The $\Lambda bb\dot{e}_{r}$ overpowered with terror, was taken to his lodging, where for several days he was bled, cupped, and purged, till he was brought to the brink of the grave; yet his face still here the appearance which had so much alarmed the physician. The brother of the of patient at length arrived from a distant part of France, (there were no railways in those days) and asked what was the matter with his unfortunate relative. "Don't you see," said the bystanders, "his mouth is all on one side?" "Alas!" he replied, "my poor brother has had his mouth on one side these forty years." Such cases will, in future, present no difficulty, even to the beginner; and we recognize at once, in Charles Bell, the great characteristic of genius, that of giving the clearness of certainty to what before was either utterly unknown, or but obscurely suspected.

Even supposing, however, that this was the selepractical lesson as yet deduced from Sir C. Bell's discoveries, it would be unjust to measure their

merit by this alone.

Independently of the direct instruction to be derived from them, they have brought physiologists into the true path; and should the dim veil which nature has thrown over the operations of the nervous system be once drawn up, it will ever be remembered who first constructed the machinery for raising it.

It is agreeable and instructive to remark and to remember that Sir C. Bell did not make very numerous experiments on living animals; but guided by a careful study of the anatomy of the parts, and reflecting on the spontaneous experiments, so to speak, furnished by disease, he was led to form views which supported by a few well considered and well planned experiments, discovered to him the truth, and enabled him to convert the guesses of former observers into admitted facts.

Had Sir C. Bell not been a surgeon or a physiologist, he might have been an artist, so admirable were his drawings, so evquisite his perception of the beautiful. This talent was with him a favourite, and might be cited as an instance of "the ruling passion strong in death;" for he was employed in sketching the gay scenery of Worcestershire but a few hours before his decease.

His love of art led him to Italy in the Summer of 1840, that he might become more intimately aequainted with the master-peices that enrich it.

During this tour he kept a journal, which I have had the gratification of seeing; it consists of three large books of sketches with remarks, illustrated by numerous sketches.

He passed through Paris and Lyons, a tered Italy by way of Geneva. Here Italies truck by the contrast between streets as a "Blackford Wynd" and the gorgeons tecture of the palaces which flank them hotel had once been a palace, and as he sayelvet cushion in an arm-chair of gold, where the same of the same in the same

The enjoyed what he ealls 'a day of Rapithe Vatican," and he was worthy of enjoining his piercing eye detected, as we might some errors in the anatomy of Raphael's drawbut do not think of that," he adds "but time comprehension of nature, the feeling at derstanding of the human family. Man apparent or the Vatican."

On the last day which he spent in Restood by the Palace of the Casars, from whe took his sketch of the Colliseum. "It is a he says, "to raise strange and solemn thou a mountain has been formed there by ruin covered with vineyards and cultivated" Pillars and ruined cornices make the weven, and the acauthus is growing by the the broken capital on which it is chiscled."

So much inventive genius, and such indera industry are rarely united in the same person when we add the warmth of his friendship among his lesser qualities, the exquisite refined his taste, the combination is not often to ralleled. He had some of the irritability often accompanies genius; yet take him was, he has left a blank not easily to be up, either in the republic of science or the of his friends.

I need not apologise, I think, for the len which I have discussed the merits of this il ous fellow-labourer; for the very conditi my office require that I should celebrate the of those persons recently deceased, whose le shall have or may have, contributed to the provement or extension of chirurgical science

[A pressure of important matter reduced compels us to postpone the remainder of this able oration till next week. We may me that we owe our report to the same short writer who furnished us with Dr. M. Hall tures.]

PERISCOPE OF THE WEEK.

PATHOLOGY OF DEALNESS .- Dr. Bo lock, of the University of Prague, from a of ten cases, which he describes, conclude the most common cause of dealness is al of one or more of the semicircular cana their imperfect development or destruction disease. In the third case, indeed, the circular canals with the exception of the aqueducts (which were wanting), were he the deafness seemed to be connected with of idiotey. In the fourth case the whole internal parts of the ear were destroy disease. It may be worthy of further in how far a circumstance noticed by the a may exist in cases of congenital deafnes observed in five cases that the anaston braneli sent to the facial from the auditory near the internal auditory foramen was g enlarged at the expense of the auditory

Tinea Favosa.—A divison of the Gollospital, Vienna, is set apart for the treat of chronic diseases of the skin, and the exments there made in the treatment of favosa seem to show that the local applie of caustics (hunar caustic, caustic potass, is the only mode of treatment followed beneficial results. Several cases were within two months by the local use of turated tineture of iodine.

SCROPTLOUS DISEASES OF THE JOIN All who have studied the history of al know that those purulent collections whice the result of acute inflammation are curn more or less quickly, and that scrofulous cesses are seldom cured, until they have bene the seat of this acute inflammation nce, I was led to employ irritant injections cases of scrofulous abscess of the joints, for purpose of exciting that degree of irritation ich is indispensable to their cure.—I shall ide the cases in which this mode of treatat was employed into two classes—viz., those iting to children, and those of adults.-Bonnet of Lyons from the fact that scrofus abseesses are seldom cured till they bene the scat of acute inflammation was lead he use of iodine injection in cases of chiln, he avoided meddling with such as were accompanied by tumefaction of the cellular ue and signs of thickening of the synovial mbrane, for he felt convinced that the itment was not suited to cases of this kind. vas restricted to scrofulous abscesses of the e-joint, accompanied by swelling of the it, evident symptoms of suppuration, and formation of fungoid or landaceous tiss in the synovial membranes and neighbourparts. The following is one of those eases strative of the effects of this mode of treatnt:—Mary Notas, seven years of age, of iphatic temperament, was admitted into pital on the 7th of March, 1811. This ld never had any scrofulous affection, The is flexed on the thigh; the knee painful, fluctuation is felt on the inner side of the The disease commenced two months viously without any apparent cause. - March The tumour was punctured, and some thin discharged; alcohol at 32 deg. was inted; the reaction was very slight.—15. The nour was again punctured and alcohol in-ted as before: the operation was not foled by any unpleasant symptom; the skin the joint was attacked by slight inflamman. Gentle pressure was now exercised by ans of a bandage.—On the 6th of May the ient was discharged in the following state: e knee is restored to its normal condition; patella, which previously adhered to the alyles, is now perfectly moveable; no sense luctuation; flexion and extension unaftended h pain and freely executed; the patient lks well, but the knee is a little stiff; a gut discharge of serous fluid still takes place m the last puncture.—In this and two other es the only ones in which he employed the tating injections, the injection of pure alcohol of a saturated tincture of iodine produced no cre inflammation. This is easily explained. e surface of abscess is always lined by false mbrane of some thickness; and, on the er hand, irritants act with little force on sons of scrotulous constitution,-As to effects of the treatment, the cases shew t even after the injection of stimulating ids the abscesses had a tendency to remain tionary, and it was necessary to repeat them re than once. This treatment, he says, exded over a period of two or three months,

Cure of Ectropion by Nitrate of Lver.—M. Magne was consulted in the case a child, where the use of the scalpel being perdicted by the parents. Dr. Magne was mpelled to depend for the local treatment lely on caustic. This he applied with great eisian, to both the palpebral and ocular consections to both the palpebral and ocular consective; and to combat the inflammation appeared of the catamenia; and in one only so long as ten days after the latter had disappeared. —Considered with respect to her generative function, woman holds a place intermediate

leven then a perfect cure was not obtained;

t the disease was considerably mitigated, and

eems probable that in country air and with

aid of the usual means for improving the

neral health, a cure might be obtained within

elve mouths.

alder flower-water, to be applied continually to the eye. The process of cauterisation was renewed daily for a fortnight, at the end of which period the granulation had disappeared, leaving only a few whitish eschars on the conjunctiva, and the child was soon afterwards sent away for change of air. Three months afterwards M. Magne again saw his patient, and reports that no trace of previous ectropion remained. On drawing forwards the lower evelid, two new membranous adhesions (brides), similar in appearance to the healthy membrane were seen to have been formed near the external angle of the eye, and united the palpebral and oenlar conjunctive maintaining the eyelid in its proper situation, while the motions of the eveball were not in any way interfered with. M. Magne has since treated other patients successfully by similar means. He states that in such eases, during the employment of the caustic, he finds it good Practice to employ cupping between the shoulders, frequent warm foot-baths, and the effusion of cold water to the face and forehead, of course to prevent the access of local inflammation as much as possible.

Physiology of Menstruation,-Dr. Raciborski communicates the following conclusions. Very intimate relations exist between the catamenia and the graatian vesicles; menstruction begins at the period when these are fully developed and ceases when they are effete (detruits). At each menstrual period one of these vesicles swells and projects from the surface of the ovary, from which it escapes by the rupture of its sac, usually about the end of the menstrnal flow, without male congress or other sexual excitement. The vesicle which thus escapes has anatomical characters precisely similar to those of the corpus luteum supposed to be formed after conception. Diseases arrest the development of the vesicles, and it is in this arrest that the true cause of amenorrhoa is in many cases to be sought; for the catamenial flow is the result of the sangnineous congestion of the internal generative organs, by which the development of the vesicle in its highest degree is accompanied. The state of the ovaries is so intimately connected with the general health of an individual, that the internal appearance of these organs after death is said by Raciborski to be alone adequate to determine whether the patient has sunk under an acute or a chronic disease, or whether she has lately menstruated regularly. Phenomena analogous to those specified above as occurring in the human female at the menstrual period, are noticed also in animals during their rutting season. Among these the ovarian vesicles are found to increase gradually in size during the interval between the rutting epochs; and they ultimately escape altogether at these epochs without congress of the male. The spontaneous detachment of the human ovum at the end of the menstrual epoch naturally renders that period the most favourable for impregnation, and readily yields a reason for the fact that conception is most commonly referred to that epoch by pregnant women. "Of 15 women (says Dr. R.) who specified acurately the period of their latest menstruation, as well as the dates of the conunbial act, 5 evidently conceived from coitus taking place from two to four days previous to the period at which the catamenia was due. In 7, conception dated from coitus occurring two or three days after menstruction; in 2, it took place at the actual period of the catamenia; and in one only so long as ten days after the latter had disappeared. -Considered with respect to her generative

between rutting animals, which are capable of impregnation only at fixed seasons of the year, and those animals in which a coitns only is required to produce impregnation at any season. She, however, approaches much nearer in point of this analogy to the former class, her power of reproduction being infinitely the more active at her menstrual periods to which the rutting time in brutes bears a strict physiological resemblance.

THE URINE .- The essential component parts of the animal matter of bile and of urine are complementary of each other; taken together they correspond with, or are equal to, the chemical components of the organised tissues, or, which is the same thing, of the blood itself. The cast-off materials of the vital tissues are tlus divided between urine on the one hand, and bile on the other. This occurs in the adult; it occurs also in the feetns; for the animal matter of the allantoid fluid and of meconium or of the urine and meconium, are also, with very slight modifications equivalent to the essential animalised constituents of the blood, and to those of the vital tissues. The nitrogenised constituents of the urine are the products of the oxidation of a part of the mate. rials cast off from the tissues, produced during the incessant change of matter which accompanies assimilation and growth in the living being; they constitute that part of the hitherto organised molecules which are incapable of any further use in the economy; and they are accordingly first dissolved, and then expelled from the body. The true origin and the final purpose of the secretion of nrine, as thus expounded, is substantiated by numerous considerations. The quantity of azotised materials which this fluid contains, evacuated at any particular time, bears no proportion to the amount of food ingested during the same period. The man who takes much exercise and little food, secretes more urea than a highly-fed individual who takes no exercise. During rapid emaciation the urine contains more area than in health. In fever and starvation, where no food is received into the system, the formation and exerction of area continues. An intimate acquaintance with the whole of these phenomena establishes it as a fact, that the quantity of the azotised compounds in the urine bears a direct relation to the change of matter in the vital tissnes.

NERVOUS MATTER.-It is constituted of a considerable proportion of albumen, and of two fatty acids, distinguished from other fats by the existence of phosphorus or phosphoric acid as a component part. One of these, the cerebrie acid, contains nitrogen, and is combined with soda, other fats being compounds of fatty acids with glycerule, and containing no nitrogen: it approaches in composition more nearly to the cholcic acid of bile than to anything else, although the two substances are quite distinct. Liebig remarks, respecting nervous matter, that it is, at all events, formed in a manner similar to that in which bile is produced, either by the separation of a highly nitrogenised compound from the constituents of blood-from fibrin, for instance-or by the combination of an azotised compound proceeding from the change of matter in the tissues, with a non-azotised and probably a fatty compound. Looking to its composition, the formation of nervous matter, in contra-distinction to that of some of the other tissues above cited, pre-supposes some change in the composition and qualities of the constituents of the blood. Liebig deems it highly probable that an accurate examination would develop differences in the composition of nerves, brain, and spinal

Marylebone Infirmary, gives several cases of out there being collateral signs to establish the Purpura, which he states to have enred, by giving crossote in half-minim doses, with sufficient rectified spirits to suspend it in an onnce and a half of mucilaginous mixture, repeated every six hours. He suggests its probable chicacy in scalecurvy.

Consissive Preumonia, consequent t rox Ornmarions, &c.—Mr. Erichsen read a paper read on this subject, of the Medico-Chirurgical Society. The following is the secretary's abstract:—The object of the anthor is to show that in the diseases and injuries which usually come under the care of the urgeon, and in operations generally, a form of inflammation of the lungs, characterized by its as then e nature, and different from that which is dependent on the absorption of pus, is a frequent attendant. The kind of inflammation to which he adverts is di-tinet from active idiopathic pneumonia, and resembles more nearly that condition of the lungs which is stated by some authors to be frequently found in typhus fever, and other diseases, attended by much debility of the system. While posseesing several characters distinct from those of passive congestion produced by mere mechanical causes, "congestive pneumonia," is especially marked by an engarged and condensed condition of considerable part, and that, most frequently, the inferior and posterior part, of these organs. The blood, the author says, under the influence of depressing causes, chiefly attributed by him to confinement in the recumbent position in the impure atmosphere of an hospital or lick-room, and to the irritative fever consequent upon wounds or profuse declarges, stannates in the lungs; a degree of inditation is consequently set up, and inflammation of a passive type is excited. In to add a few drops of rannet. Hydrochloric the first stage the affected parts are of a livid sidet, or purple-mottled colour, heavy, compact, but friable, readily breaking down into a grumous pulp, and scareely crepitating when pressed upon, but exading a very considerable quantity of thin, symmous, frothy fluid. In the econd stage the tissue of the organ is more stances when once dissolved in the stomach dense, but still very friable; it does not crept- pass directly into the veins. This is the case dense, but still very friable; it does not crepitate, but sinks in water, and when cut into, the sides of the incision present a smooth, uniform, partially converted into Lactic acid in the black aspect, to be attributed to a highly gorged state of the capillary net-work of the lungs compressing the air-cells, which are either empty or contain, at most, a thin serous thid. In order to establish his proposition, that this kind of phenomia is prevalent in easts of surgical complaints of the passed-Lineous description implied by the title of his paper, he present a table containing a record of 62 post-mortem examinations of the lungs in patients who had been treated in the surgical wards of the University College Ho pital. The list was made without selection, and is emposed of a series of diseases, injuries, and operations of the varied nature, as to kind, charation, and fitted character, usually met with together, in an hospital. Burns, which are a special kind of injury, are not included in it, occure the symptoms of the patients lucing life, or the morbid appearances found in other ragan's besides the lungs. He arrange his coes into four classes, and finds, first, that of there in which the presence of a pneumonia w evinced by the diseased condition being comined to one lung, by its having advance (to obditication, or by its being combined with indicamation of the plenne, or bronchial 1615 ous membrane; these are 28 cases, or n why one half of the total number. Secondly, that of doubtful cases, in which the lungs preasked the characters common to the first stage [nomenon presents itself.]

Chrosott ix Punting.-Mr. Whitwell, of of phenononia, and to passive congestion, with diagnosis, these are 11. Thirdly, that of eases in which the lungs were diseased, but not in-flamed or congested, these are 9. Lastly, that of cases in which the lungs were found per-fectly healthy, these are 14. He further states that of the 2's cases included in the first class, the pneumonia had advanced in 17, to the serend stage of hepatication.

MEDICAL HEWS.

PARIS ACADEMY OF SCIENCES, Jan. 30 .-An account was given of some experiments by MM. Sandras and Bonchardat, with a view to ascertain the mode of absorption of the different elements of nutrition contained in the principal articles of food used by man or the lower animals. Taking as a basis that soluble aliments are absorbed by the veins, and insoluble aliments by the chyliferous tubes, it remained to be ascertained in what way nature had provided the means of rendering certain aliments soluble, or of separating them to such a degree as to enable them to pass through the chyliferons tubes. MM, Sandras and Bouchardat divided their experiments into two series; one chemical, the other physiological. The cheinical experiments showed the action which water slightly acidolated by chloridric acid exercises upon the Parine, albumine, caseum, gluten, and the gelatinous tissues. All these substances enlarge, and become translucent, and some of them dissolve. It is sufficient, in order to produce most of these phenomena, to add to 10,000 grammes of water, six grammes of hydrochloric acid, but it was found necessary in order completely to dissolve the fibrine avid, therefore, is not the dissolving agent in the gastric juice; the animal matter called popsino or chymosine, must also le present. This being admitted, it appears probable, from the experiments of Messieurs Sandras and Bonchardat, that neutral azoted animal subwith gluten. Storch and fecula are wholly or storanch, and are absorbed in this form .-Neither starch nor sugar is found in the chyle during a course of feculent alimentation. Greasy substances resist the action of the stomach, and pass into the intestinal canal, where they form a sort of thick cream, and at the same time the chyle, under their influence, develops itself in extraordinary abundance in globules capable of rendering them milky and opaque. According to MM. Sandras and Bouchardat, therefore, greasy substances are the main agents in the production of chyle, so necessary for the process of digetion - A communication was read relative to some experiments on the blood, by MM. Andral and Gavairet. These gentlemen, forcibly struck with the fact that a learned professor had succeeded in precipitating albumine in the form of globules, by adding a sufficient quantity of water to serum neutrolised by an acid, repeated M. Leibig's experiment, and were not a little surprised to find that the globulous bodies, which developed themselves in the serum of the blood, were nothing less than the first rudiments of the vegetable of fermentation. Their experiments were repeated on the white of an egg, and on various serosities produced by disease, and the result is that, whatever may be the albuminous liquid, the alkaline property of which is removed by an acid, the same plus-

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THE MEDICAL TIMES.

A Journal of English and Foreign Medicine and Mediert Affairs.

No. 179. Vol. VII.

LONDON, SATURDAY, FEBRUARY 25, 1843.

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ANALYSIS OF MORBID PHENOMENA. NOMENCLATURE.—BY W. TARR, ESQ.

(Extracted from the Regl true General's Annual Roport)

Ir will be observed that the preceding alphabetieal list contains more diseases than the nosology, and the nosology more than the abstracts; to o plain this, and to show how the list of the causes of death may be legitimately extended or contracted, it will be useful to inquire how diseases have been named, or upon what principles, morbid phenomens have been grouped and subdivided. I shall therefore pass rapidly in review the elementary phenomena of disease, and consider more particularly how the numerous and, in some instances, apparently arbitrary species have been distinguished by original and systematic writers; for without admitting the assertion, repeated by Callen, that "species are created by nature; genera by the human mind," +- as our ideas both of segeneral are creations of external nature and of the percipient mind,-the determination of these primary elements of generalization is nuquestionably more important than the subsequent steps in the process, because an error here will be irreparable. The species in the statistical nosology occur in the registers as well as in all the systematic medieal works; and my object is not so much to propose anything new either in the names or the species (it being the very nature of an arrangement of the facts observed by all the practitioners of a country, to follow, as the observers themselves follow, the discoveries of pathology), as to point out some of the principles which have guided us in the distinction of species, and in the formation of other divisions of the classification.

The human body consists of atoms of various kinds in certain degrees of proximity—in a polarity—and in relative positions—which probably determine the properties of the organization, considered in reference to its various parts, and to the external world, from which it is constantly receiving, and to which it is incessantly rendering, its elements. The constituent atoms of oxygen, hydrogen, carbon, nitrogen, phosphorus, sulphur, iron, calcium, magnesium, potassium, and sodium, exist in fluid or solid compounds—the result of a long scries of metamorphoses—in the carth, atmosphere, plants, and inferior animals. The fluid compounds are blood. The solids, which, accord-

* The medical reader who takes any interest in this subject, is requested to refer to the article "Nosology" in the Appendix to the First Report. I say "medical" reader, because it is impossible to discuss a subject so purely technical as Nosology, without assuming a knowledge of facts and principles which can only be familiar to medical men; who it is quite certain will be called upon to exercise all their professional sagacity in returning the "causes of death" with the necessary degree of accuracy.

† A natura vero, species solum datæ sunt; et generum constitutio est mentis humane excogitatio.—Cullen—Synopsis Nosol. Meth. Even in natural history it would perhaps be more correct to say "individuals" than apecies

ing to a recent theory, consist of cells, may be divided into cellular, inneous, fibrons, horny, eartilaginons, osseous, muscular, vascular, nervous tissues; and the blood, apparently a homogeneous liquid, perfectually undergoing transformations, readily separates out of the vessels into a clot of tibrine, entaughing globules (cells?), and into serum, containing dissolved albumen, with earbonates, phosphates, nurriates, and sulphates of pota-h and sodu in solution. Fibrine and albumen contain the same elements in the same propertions; with a red colouring compound of iron they form the globules. The blood also contains peculiar fatty bodies, and the earth of bone in small quantities. All the tissues are formed out of the blood; and they form the parts, organs, and systems of which the aggregate is the organization.

The body in the whole, and in its parts, undergoes imminerable alterations; but these deviations from the normal type may be reduced to certain general heads: -(1.) increase, or diminu tion of density, weight, volume, cohesion, elasticity, colour, number (of parts),-of which the following present examples—induration, softening, dilatation, contraction, atrophy, hypertrophy, anemia, plethora, albinism, fracture, hæmorrhage: (2.) displacement, - examples - transposition of viscera, hernia, dislocations, passive congestion, dropsy: (3.) heterologous* products-examplespus, tubercle, cancer, mclanosis: (4.) disorganization,-examples-ulceration, mortification. The servicens—the products of transformations of the blood and tissues-saliva, intestinal juice, pancreaf 260 life, (poured the ice sinal emel), mik, aran, (liquid.), perspiration, oreath (generally in a state of vapour)—may all be excessive (flux), altered in composition (discharge), or deficient (suppression)—examples—diuresis, iscluria diabetes, albuminaria, stone (of nric acid, oxalate of lime, phosphate of lime, the triple phosphates). As the urine, which affords peculiar facilities for chemical investigation, has been found to vary in all its constituents, and to contain either matters derived from the blood, as albumen-or, as in jaundice, secreted by remote organs—or new (heterologous) compounds, such as diabetic sugar, oxalate of lime, free nric acid,—the existence of similar changes may be inferred in the other secretions, and in the blood.

Besides the physical and chemical alterations which may be detected after, as well as before death, derangements of the dynamic phenomena of life are observed, which may be referred to the heads of heat, refrigeration, spasm, paralysis, pain, coma, mania, amentia; as we see them, for instance, in ague, the exanthemata, typhus, inflammation, cholera, tetanus, epilepsy, palpitation, paraplegia, gastrodynia, apoplexy, insanity.

The elementary phenomena of disease admit of infinite combinations; and none is of more frequent occurrence, or of greater importance, than inflammation; the symptoms of which are reduces and swelling, with heat and pain."† The reduces and swelling denote an excess of blood in the part; the heat, a chemical reaction of the blood and tissue, the result of which is interruption of the function, and generally the effusion of lymph, the formation of pus, or gangrene. If the hypothesis he adopted, that heat is formed by the combistion of organic matter, and is proportional to the amount of oxygen consumed, we can easily understand how heat is generated, and becomes sensible in inflammation. The heat, accompanied by quick pulse (increased action of the

† Note vero inflammationis sum quataor, rubor et tumor cum colore et dolors. † 1969, lib. 2.

heart), is called inflammatory fever; but fever itself is the result of a great variety of morbid processes, in which the disengagement of heat and the waste of flesh is rapid, without any development of muscular or mental force.

If we now inquire how the species of disease have been distinguished, and whence their characters have been derived, it will be found to have been generally from the morbid processes or products, the parts affected, the pain, the perceptibility of phenomena, their duration, their individuality, frequency, and fatality.

The parts affected, and their functions, stand next in importance to the morbid processes, actions, or products. The body is an aggregate of organs, each consisting of a variety of tissues, and performing pecial offices; the eye for instance, is an organ consisting of a lens, of humours, membranes, blood-vessels, muscles, nerves the optic nerve; its function is vision; and though all the deviations of its apparatus from the normal state are morbid,-interference with vision tamps them with importance, and entitles them to manes. The most important organs are the brain, spinal marrow, nerves, and senses, constituting the nervous system; function-sensation, volition, motion: the heart, arteries, veins,-the vascular system; Pourtion—circulation of the blood. The nervous and vascular systems pervade, and their derangement may directly disturb, all the parts of the body. The functions of the absorbent, respiratory, digestive, minary, generative, locomotive, integuncer-tary, and ellipsystem, will be denoted by His reston will be denoted by the ir to parts, forming abordinate organ a thus, the hand is an organ of prehension, the mouth of mustica-tion, the pharyux of deglutition. Some parts are more cally observed than others, and will be found to have not perhap, more disease, but a greater number of specified diseases. The in-fluence of function, and of perceptibility on no sological nomenclature, will be seen by comparing in systematic works the diseases of the car and hand with the long list of diseases of the eye; the diseases of the nucous membranes with the diseases of the skin; the inflammations distinguished by the antients, with the serons, mucous, parenchymatous inflammations of modern pathologists, armed with new instruments of diagnosis, and facilities for examining bodies after death. Where particular parts of organs are liable to attacks, and present characteristic symptoms under the attack, or where the products of pathological processes are distinct: wherever, in fact, important pathological states and phenomena are isolated and can be individualized, they have been made species of disease. Pleurisy, pneumonia, and catarrh (bronchitis,) were distinguished at an early period, and their independent existence has been confirmed by pathological anntomists; they differ in the symptoms, site and futality; and occurring together, but often alone. are examples of the way in which diseases of different parts of an organ have been divided into

In the constitution of species, more attention is now justly paid to structural than to functional changes; the former are often the proximate causes of the latter; but some pathologists, led astray by a principle of classification applicable to natural history,* or pre-occupied by their anatomical

^{*} Laennec proposed to call tubercle, melanosis, and cancer, which have no analogues in the organization, heterologous products.

^{*} Pour que chaque etre paisse toujours re reconnaître dons ce catalogue, il faut qu'il porte son caractere avec lui : on ne peut donc prendre les caracteres drus dest proprietes on dans des habitudes dont l'ever ice soit momentancé mais ils doivent etre tir : de la conformation : Cavier—Regne Animal, to me i. p. 7. The problem in natural history is or neit propriete of many thousands or millions of individuals, what is its name and place in the regulation. As the specimen is obsended to

studies, and the recent discoveries in morbid anatomy, have denied the existence of dynamic isease; and, by a violent and improbable hypothesis, have assumed that every case, for instance, of insanity, convulsion, or syncope, is the symptom of a congestion, inflammation, or some other evident anatomical lesion. It would be as reasonable to assume that the needle of the mariner's compass never loses its magnetic properties but by evident exidation.

Upon an examination of the registers of the fatal diseases in the first years of registration made, as is evident from the instructions, without any precenceived notions on classification, it was found that, exclusive of epidemic diseases, a majority of the cases had been referred to particular organs, which were named, or unequivocally indicated, by the nature of the lesion. In other cases, such as hæmorrhage, dropsy, abscess, mortification, and cancer, the seat of the disease was soldom mentioned. The first class was arranged in groups, as sporadic diseases of the nervous, circulating, respiratory, digestive, urinary, generative, locomotive, and integumentary systems; the socond as diseases of uncertain seat (de incertes sedibus.)* This mode of viewing the facts is common in England; it has been adopted in the treatises on the practice of physic, which are most generally in the hands of practitioners; and, what is of more importance, by the authors who have devoted themselves successfully to research, and have naturally contributed most to the formation of the reigning medical opinions. The Library of Practical Medicine has followed this arrangement; and we have the original works of .1bererouble and Marshall Hall, on Diseases of the Nerrous System; Hope, on the Discases of the Circulating System; Williams, on Diseases of the Chest; Abererondia, on Diseases of the Stomach and Intestines; Print and Sir Benjamin Brodie, on the Discuses of the Urinary Organs: Willan and Batemen, on Cutaneous Diseases. not to mention others, and the treatises on midwifery, or the surgical treatises on the diseases of the joints and homes. Upon the other hand, there are essays and papers by Carswell, Watson, Sir James Clark, Mueller, Carmichael, and Walshe, on hæmorrhage, dropsy, tubercle, cancer, with a subordinate reference to the parts affected. French writers, Laennee, Andral, Chomel, Rostan, Lallemand, and Louis, from whom we have derived so much, have east their practical works in the some mould. This mode of grouping and considering the different types of sporadic disease, appears to be practically the best-to involve few errors in carrying it out, to lead to useful results. and to be in conformity with the general principles upon which diseases have been constituted and

It will be observed that the different heads in the statistical nosology are unmbered and sometimes subdivided; they may be called species, provided the term be not understood in the strict sense it bears in natural history† with the technicalities of which medical science should not be encumbered, as it has principles of its own, and can derive more advantage from the methods of chemistry and natural philosophy.

Sporadic discusses of uncertainer or rapidly scat,

To commence with the diseases of uncertain or variable seat. Hamorchage 28) is essentially the loss of blood; blood may escape from any of the

-as in fossils-has been only partially preserved. the superior importance of characters, derived from the most permanent structures of the organization, is obvious. Recognition is not a main objeet of any classification of diseases; and the most expert anatomist would, in numberless instances. find it impossible to divine from the after-death appearances, the previous pathological phenomens Colsus,

† I i generation ctant le scul moyen de connaitre les Lantes aux prêles les varietes peuvent Setender, on de it delinir Sespere, la re-main des 1 diedus de sendo las de la tre, on de prients conreas, et de cenx qui leur ressemblent autant qu'ils se les emblent entre inv. - Cavier, R. A , tome i p. 47. M. Maild deplaction to fine our eyes, we can no other dath open and genera of natural breiory with those of dispuses

vessels in any part; and the difference and susceptibility of the part has given eight names to the affection. Hamorrhage is periodical in females, and hereditary in some families; epistaxis is a type of simple harmorrhage. The extensive loss of blood in phthisis, stone, cancer, uleer, wounds, &c., is an important and sometimes fatal complication; but the combination of lesions may be described ("phthisis, harmoptysis," &c.) and does not require a name. Hæmorrhage in the brain is one of the causes of apoplexy; in the lungs one of the causes of asphyxia. Dropsy (30), the effusion of serum in the cellular tissue, the brain, chest, pericardium, peritoneum, tunica albuginea, has received distinct names; it is frequently an effect of retarded circulation: is a sequela of scarlatina: is observed in famines, and is the cause, consequence, or concomitant of Bright's disease of the kidneys (nephria). Abscess (31) or purulent deposit, is a secondary disease; progr abseess (almost invariably scrofulous) has been distinguished; ulcer (32) is generally scrofulous. scorbutie, syphilitie, cancerous, or varicose, and is further described by the addition of the part affected. Scrofula, characterised by the deposit of a matter, allied to, if not identical with, the tuberculous matter of phthisis, so frequently affects the lymphatic glands, that their chronic enlargement and inflammation (adentitis) is almost always con- of the organs, which are considered sufficiently sidered scrofulous; the deposit of inherenlous matter in the mesenteric glands has a name; it is frequent in children. Tubercle may be depo-sited in every part, and is found in the bodies of those who die of other diseases; it affects the justified, and is unnecessary for statistical purglands and brain chiefly in children, the lungs in adults. Cancer differs from tuberculous matter in its tendency to assume an imperfect form of organization; it presents several varieties; but as it invades many parts, simultaneously or successively, it has not received special names from the organs, notwith-tanding the variety of specific symptoms to which it gives rise. It is unnecessary to extend these remarks; they will apply with little variation, to all the diseases in the class. By following all the possible combinations of the few elementary lesions here fixed upon through all the organs, considering each a separate disease, and giving it a name, the number of species would become very great; but the number has been limited by their unfrequency, imperceptibility, indistinctness, or indestructiveness.

If it were agreed to use the prefixes-hom-a. nydr-o, py-o, hele-o, choir-a, carcin-o, necr-o hyper, p.r.-to designate the ten principal lesions in the class, by prefixing them to only ten of the principal parts (and they may be prefixed to a hundred). 100 species would be formed. Thus, as we have hydro-cophalus, serum offused in the brain (including its membranes); we should have hæmencephalus, blood effused in the brain : pyencephalus, pus, (abscess) in the brain : helcencephalus, ulceration of the brain : choirencephalus, tubercles in the brain; necrencephalus, ramolissement of the brain; hyperencephalus, hypertrophy of the brain; parencephalus, malformation of the brain; and earcinencephalus, cancer of the brain; earcinocardia, cancer of the heart; carcinopneumon, cancer of the lung; carcinolicpar, cancer of the liver; carcinogaster, cancer of the stomach; enreinentera, cancer of the intestines: carcinephrus, cancer of the bidney: carcinocystis, cancer of the bladder; earcinohystera, cancer of the uterns; carcimanum, cancer of the breast. Carcinosteon is designated osteo-arconna in surgical works. All these lesions are the source of special phenomena (be mencephalus, carcinencephalus, and carcinuamma, for example, are attended by very different effects); and they have been enumerated because a comparison of these and other possible combination, of lesions and symptoms affords a good illustration of the way in which diseases have been constituted; but the new names have not been introduced into the nosology, because it could have bit to uniformity only at the expenses of old name; and be-

* Heleosteon and characters for confect paraabsects, and white welling a necrosion for me happly stera a cross, hyperosteon for exocteds and node, choiren for asolios. So.

cause the primary fatal diseases of several in the class are not numerous, and others, as has been already stated, in which there are organized or unorganized deposits, affect several organs before they prove faral. Hæmencephalus, necrencephalus, hyperencephalus, hypercardia, may, however, he advantageously adopted. In other cases it will be simpler to write, as has been recommended in the nosology, "cancer of the breast, liver, brain, "than three compound names; and more convenient to describe the disease by the addition of the locality affected, as "cancer of the tongue," "of the osophagus," of the stomach," "of the colon," &c., than to invent specific names, which are only required in the place of descriptions, when the things or facts have to be frequently considered and mentioned.

Liftammations,-Local Diseases.

Redness, swelling, heat, and pain, are diagnostic symptoms of inflammation, but they cannot be satisfactorily observed except in external parts; the fever is common to all acute inflammation; though the vascular injection, and other traces of inflammation might be found after death, they are rarely observed, as the internal parts are selden inspected; so that practically the perversion or abolition of function is the most striking phenomenon in the inflammations important to form distinct diseases. Hence the names of the parts affected, with the suffix "itis," give names to forty diseases; a subdivision of phenomena which, if it is not always poses, admits of explanation, and throws light upon the principles already advanced. Intlammation may exist wherever there are blood and capillaries: its species are limited by the importance of the parts affected. Inflammation of the membranes and medullary matter of the brain have been designated meningitis, and encophalitis: of the spinal marrow and its memones myeliti. Besides these inflammations, which sometimes exist apart and can sometimes be distinguished during life, writers have de-cribed arachnitis, cerebritis, cerebellitis, &c., from the appearances after death. Cullen designated by the old term placenitis the inflammations of the brain, spinal marrow, and membranes; and although the chief distinctions of modern pathologists should be attended to where it is practicable. in assigning the causes of death, it would be unwise to carry the division further, or to preserve more than the one head, cephalitis, in the abstracts. Ophthalmia is now subdivided, and minute oculists describe " conjunctivitis, sclerotitis, iritis, choroiditis, retinitis, and hyaloiditis." Auscultation has facilitated the diagnosis of affections of the chest; and the inflammations of the internal and external membranes have been separated from those of the parenchyma of the heart and lungs; besides pleuritis, bronchitis, and pneumonitis, practical writers now treat of pericarditis endocarditis, carditis. The inflammation of the two surfaces and parenchyma of other organs are generally designated by one word—glossitis, parotitis, hepatitis, panereatitis, splenitis, nephritis, cystitis, orchitis. If it were of the least mility, the triple subdivision might be extended to these organs; and hepatitis, for example, might be made choledocitis, perile patitis, he patiti . Butlammation of the intestinal tract has received several names; stomatitis, tonsillitis, pharyngitis, osophagitis, castritis, entericis, (under which term I include duodenitis, jejunitis, ileitis, cœ itis, colitis, rectitis, proctitis). These terms are held to designate especially inflammation of the mucous and submucons coats of the conal; which is invested after it enters the abdomen by the peritoneum; inflammation of this serous membrane is named peritouitis. A question has arisen whether inflammation of the part of the peritoneum -- investing the stomach, small and large intestine, liver, uterus, bladder, &c -should not be specifically used mated gestritis, hepatitis, &c.? It will be tauch more convenient to designate inflammation of every part of

tors for ether mesentation, ho menters for malwha, hamshysters for immorthagia, hydroperitoneum subserons coats of the peritoneum derive blood from the vessels of the subjacent organs; and, when secondarily involved, their inflammation i necessarily included in our idea of inflammation of those organs. Inflammation of the liver, eausing adhesions of the peritoneum, is essentially hepatitis; the inflammation, from perforation of the intestine, of the investing membrane of the liver, and of the other viscera, although their functions are all violently deranged, is essentially peritonitis. Hens is ascribed to inflammation of the muscular coat of the intestine by Dr. Abercromble, who considers it "established that a result of inflammation in muscular fibre is gan-Dothinenteritis has been employed to designate inflammation of the mucous follieles .-The inflammations of the respiratory tract, arecoryza (schneideritis?) laryngitis, tracheitis, bronchitis, pneumonitis; of the urinary tract—urchitis, eystitis, urcteritis, pyelitis. The bones ligaments, joints, (synovial membranes) bursae, tendons, muscles, nerves, veins, arteries, lymphaties and glands, described by anatomists, are very numerous; the bones, for instance, are reckoned at 216, and every one may be the sent of inflammation, similar in its kind, however different in its effects; so as to avoid an endless multiplication of names, which would be rarely or never used, inflammation of the veins (of one or of all) has been cailed phlebitis, and the inflammations of the other parts have been named in the same way arteritis, adenitis, nenritis, myositis, arthritis (synovitis, erondritis, syndesmitis,), ostitis, endostitis, periostitis,) fascitis, tendinitis. In registering this class of cases it will be most convenient to write "Inflammation of —," the particular part; or " Arthritis (knee)," &c.

Inflammations are acute or chronic; but the duration may be more accurately expressed by the

ordinary measures of time.

Inflammations may be divided into pure inflammations-idio-inflammations-or those which supervene in a normal state of the blood and tissue; and inflammations which are developed in ca-chexies, and in the course of other diseases. The distinction is of such fundamental importance, that it should be explicitly expressed in the names; which might be effected by restricting the use of the termination "itis" to idio-inflammations, and applying the termination "ia" to complicated inflammations. Simple inflammation of the lungs would be designated pneumonitis: the inflammation of the lungs occurring in small-pox " pneumonia," Upon the same principle opthalmitis, and purulent opthalmia, may be distinguished; the visceral inflammations in typhus and remittent fever would not be cephalitie, &c., but cephalia, pulmonia, gasteria, enteria, hepatia. The inflammation of the brain in scrofulous children has a specific name-hydrocephalus; and peritonitis, with tubercular deposition, is qualified by "tubercular;" the adoption of the two terminations would be a useful extension of the analogy, with which dysenteria is in strict conformity.

Functional Diseases.

The systems of organs in the body are liable to functional derangements which cannot be ascribed to inflammations. Neither the inflammation nor the dynamic derangement exists independently of the organs; the two series of phenomena often coexist; and it is not clear that they can be advantageously separated in statistical abstracts of the causes of death. They were grouped together under the principal systems in the first abstracts, and the arrangement has been retained. For the organ determines the character of the disease, as the grafted branch determines the quality of the fruit.

Diseases of the Nervous System.

The brain, spinal marrow, and nerves, are the organs of sensition, volition, and (with the muscles), of motion. The muscles are of two kinds : the voluntary muscles, which are attached to the

* Researches on the Diseases of the Stomach. the Intestinal Canal, the Liver, and other Vicers of the Abdomon. By A. Abercraintine, M.D., So. Third Edition, p. 6.

the peritoneum-peritonitis: but the serons and bony levers of the skeleton, and, by contracting at the bidding of the will, produce the various movements which we witness of the whole or a part of the body; and the involuntary muscles of the hollow organs, for the retention, circulation, ingestion, and expulsion of fluids; some of which, such as the heart and intestinal canal, are independant of the will, while others, like the respiratory muscles, are excited by the brain and by the spinal marrow-by the stimulus of volition and of contact-reflected along the nerves. Spasm is in general the excess of irregularity, paralysis the abolition or duminution of muscular action; the voluntary muscles, in spasm, contract spontaneously despite of the will; in paralysis the will has no effect upon them, or does not produce harmonised contractions; the involuntary muscles in the same circumstances contract violently and irregularly, or cease to contract upon the application of the accustomed stimuli. As volition implies consciousness, the muscles which are exclusively excited by volition are inactive (paralyzed?) in sleep, coma, and apoplexy-which in its simple form appears to be a modification of deep sleep. In tetanus, croup, epilepsy, catalepsy, hysteries, convulsions, chorea, tremor, paralysis, apoplexy, the voluntary and partly voluntary motor system is principally deranged, with or without loss of consciousness; but the spasms or paralysis may originate in the muscles, the nerves, or the spinal marrow; and after Dr. Marshall Hall's ingenious hypothesis, supported by many facts and experiments, the true spinal system, in this sense, may be considered the seat of the spasm, which, as well as paralysis, may affect any muscle to which motor nerves are distributed, as pain may be felt in any part from which sentient nerves proceed. Pain accompanies nearly all diseases; when it is the sole or principal phenomenon, it has been designated neuralgia; orcephalalgia,odontalgia,cardialgia,gastralgia, enteralgia, &c., by suffixing algia, from algos, pain. Odynia is used precisely in the same sense (as in gastrodynia); and headache, toothache, heartache, bellyache, stomachache, are translations of the Greek compounds. Tie doulourcux is a convulsive pain. The spasms and paralysis of parts may be designated in the same manner as their pains by terminations (cardiasm may denote spasm, cardialysis paralysis of the heart): hemiplegia and paraplegia are in general use: trismus, paga and parapega are in general use; trisinus, opisthotonos, emprosthotonos, pleurosthotonos, are searcely required to denote transitory forms of tetanus. The modifications of muscular force, contraction, and rythm, as well as their combinations with pain, loss of consciousness, and functional derangements, are numberless; it will be sufficient to mention a few from the nosologies, as they are either physiological, and not primary independent affections, or seldom shorten life; trenabling, shivering, languor, lassitude, hiccup, sobbing, sneezing, congling, putting, snoring, yawning, twitching, twinkling, squinting, stammer-

ing, (Linneus, Mason Good, &c.) The modifications of the sensations, and of their organs, are equally numerous: the names of disorders of the feelings, passions, intellect, abound in the lexicons of all languages. Mania, monomania, and dementia-a termination of mania-

may be distinguished in the registers.

When the brain, spinal marrow, and nerves of persons affected with the lesions that have been called dynamic are examined after death, traces of inflammation are often found; congestion, softening, effusion of serum, hæmorrhage, tubercles, tumours, produce paralysis or apoplexy. The connexion between the anatomical lesions and derangements of function requires further investigation; it is not

Discases of the organs of circulation.

It was necessary to point out the dependence of visceral pains, spasms, and paralysis on the brain and spinal marrow; which, in their various states of excitement, depression or derangement, influence even the involuntary muscles. The heart, for instance, beats violently or intermittingly under various states of mental excitement, and beats heavily and slowly in apoplexy : but as pulpitation, pasm, tulating, cardialgia, &a, and frequent symptoms of eases may be in the heart itself, they have been fighted may offen no considered the expenience of begge diseaso, and as their course in thempelile

classed with its inflammations and organic diseases. The same principle has been acted on in dealing with the neuroses of other organs, and with affections of the brain originating in the diseases of the heart and kidneys. The organic diseases of the heart and kidneys. vascular system-hypertrophy, atrophy, ossification, diseased valves, ancurism-which are now detected by auscultation, can often, but not alway;, be traced to inflammation.

Diseases of the respiratory organ

Laryngismus stridulus, and asthma, appear to be the only neuroses of the respiratory system which require a separate head in a classification of fatal diseases. Deposits of tubercle have so frequently their seat in the lungs that the phenomena to which they give rise have been called phthis is pulmonalis; and on this ground, as well as the supposed uncertainty of diagnosis, where ansenhation is not used, philisis was classed with the diseases of the lungs in the first abstracts. It does not, however, appear to be governed by the same laws as the pulmonary diseases, and will probably require, with the progress of registration, to be classed in the abstracts under a separate head, or with the other tuberculous diseases.

Diseases of the digestive organs.

Hernia (strangulated) and intussusception are inflammations of the intestine, caused by pressure; in the former preceded by the escape, in the latter by violent muscular action, of the bowel, and gonerally terminating in mortification, with the symptoms of ileus. Constipation may be either the effect of inaction (torpor), or of spasmodic constriction (colic) of a portion of the intestinal tube : stricture is a contraction of the submucous coat, either from previous inflammation, ulceration, or heterologous deposits; and the symptoms vary according as the stricture may be situate in the esophagus, pylorus, ilenin, rectum, &c., and may consequently interrupt the ingestion of food or the passage of fieres. As the canals of the organs of the body transmit fluids, obstructions and retentions form an important class of their derange-ments; thus, besides the stricture of the intestine, there are obstructions of the gall-ducts, of the ureters, urethra, heart-valves, arteries, veins, trachea, all of which may be fatal. The reduction of aliment is the special function of the stomach and intestine; it is inferred that this is imperfectly performed when there is nausea, heartburn, disengagement of gas, or of acrid fluids; hence the designation dyspepsia. Little is known of the discases and functions of the pancreas and spleen. Liebig has rendered it probable that the bile is absorbed from the intestine; may not disorders of nutrition, therefore, which put a stop to its destruction (combustion) in the blood, lead to its deposit in the cellular tissue, or secretion in the nrine? Jaundice is, however, generally connected with the diseases of the liver, and is always referred to the liver as its source. The fatty degeneration of the liver occurs frequently in phthisis; cirrhosis is an atrophy of the liver produced by the pressure of the contractile tissue, developed in the capsule of Glisson .- (Carswell.) The compression of the portal vein leads to venous effusion, and almost invariably constitutes the disease which was called by the ancients ascites.

Diseases of the urinary organs.

Ischuria, diuresis, albuminuria, diabetes, stone, are the principal functional diseases of the urinary system; the three first, though often symptoms (as subordinate phenomena are sometimes called) of nephritis and other diseases, appear to have sometimes an independent existence. As the sugar of diabetes is found in the blood and in the stomach, it has been considered essentially a dyspepsia, and been classified with the stomach diseases, as bile in the urine has been referred to the liver; but we have custom, with the unquestionable, invariable existence of sugar in the urinary secretion, on one side, and only a probable hypothesis on the other. A secretion may be modified as well by a change of the fluids, from which it is made directly or indirectly, as by a change in the secretary organ; and the arabic min, mile acid, tuple phraphilite, attenued as well as engag in the gans. The same may be said of mismen-truation.

Diseases of the organs of generation.

All the diseases incidental to childbirth are connected together by this function, and their seat in the reproductive organs.

Diseases of the organs of locomotion.

Besides inflammation, the osseons system may be the seat of all the diseases of uncertain sent; brittleness and softening appear to depend upon the excess or deficiency of bone-earth in their gelatinous tissue. Skin diseases require no comment here ; the innumerable varieties depend apparently as much on the complicated structure of the integumentary system, and its free exposure to the oxygen of the air, as on the specific nature of the morbid processes.

Two or more diseases frequently coexist; plenripneumonia, paraplexia, and gastro-enteritis, are examples of the compound names by which these combinations have been designated. If two morbid states invariably coexist, or two parts are simultaneously affected, and the one affection imply the other, a single name is sufficient; if the coincidence is rare, a new name will be unnecessary; and as a general rule, it will be better in such cases to write the names of the separate diseases conseentively, whether they arise from the same cause, or stand to each other in the relation of effects and canses.

The phenomena of all the diseases which have hitherto been considered had reference to the nature of the morbid processes, or the systems of functions and organs: two classes remain to be reviewed—the class of epidemic, endemic, contagious diseases, and the class of poisons, a phyxia, or injuries, in which the cause is the fund mental fact around which the phenomena are naturally

Poisons and Injuries.

One person dies of corresion of the tourch and hematemesis, another of palsy of the heart, another of tetanic spasms of the respiratory muscles, another of pure narcotism, another of a combination of these phenomena which have in them something peenliar, and differ from the spontaneous disease. with which they have been compared. All the sufficers have been poisoned by oxalic acid, in various degrees of dilution. Verdigris produces a variety of symptoms-vomiting, cutting pains in the bowels, jaundice, violent headache, cramps in the legs, convulsions, palsy, insensibility,-and the poison itself is the predominating fact; the nature of the morbid processes, and the lesion of the parts or functions being of secondary importance, differing according to the dose, the individual, and many accidental circumstances, but possessing altogether, in connexion with each other, order of succession, intensity, and result, a certain individuality of character, which distinguishes poisoning by copper from poisoning by other substances, and from other diseases. The diseases that poisons - such as oxalic acid and the salts of copper or lead-occasion in the body, should evidently be named, now that the disences have been ably investigated and described, though they are not so well understood as their exciters. The idea of the metal, lead, it represented by the word "lead;" and as this name is required for the purpo es of speech, a name for the series of phenomena caused by lead, or the sults of lead, in the human body, appears to be equally indispensable in medical science. It is as necessary to distinguish the effects of a lead poison in the body, from the lead poison itself—as to di tinguish a "burn" from the fire by which it is produced; for arsenic, or any substance of the kind, proves a cause of death only when it produe s certain changes (diseases) in the organization, and those changes are logically the direct cause of death. A burn or arscaicia may be the cause of death but fire and arscaic are only causes of death by producing burns and arsenicia. Catharsis, narcotism, intoxication, salivation, burn (blister, e-char), asphyxia, fracture, contusion, wound, dislocation, are names, that have already been adopted to designete the pathological effects of eleminal or mechanical agents. Cathersis is produced by consequence extensions, judge thebarh, where scame, and, each extension, differential ender scame.

changes in the chemical processes of remote or- of soda, potash, magnesia, and a hundred other substances; in the effects of which careful observation might detect peculiarities, slight in some cases, but as broad and obvious in others as the differences in the chemical composition of the catharties. In strict conformity, nevertheless, with the correct principles of nomenclature, catharsis and hypercathursis serve to express the actions of the greater number of purgatives; yet it must not be forgotten that these actions are of a peculiar nature, sometimes affecting the whole organization. and constituting specific diseases, of which eathersis is a leading symptom. Opium, hyoseyamus, homlock, hydrocyanie acid, tobacco, belladonna, digitalis, fungi, cause narcotism; and the term narcotism designates sufficiently well the effects of some of the common narcotics; but it would be absurd to confound the diseases excited by opium and hydrocyanic acid, digitalis and poisonous funci, under a general designation. Catharsis, narcotism, intoxication, and burn, present nearly all the elementary phenomena of poisoning; but the number of combinations of elementary phenomena, and degrees of intensity, like their chemical causes, are innumerable. In the present state of science many may be described by periphrases, but a few require specific names, of which the following are submitted as examples; and if they should not be adopted, they may still be considered an illustration of distinctions which everybody will admit to be important :-

Poison Disease produced by the Poison. Silver (organos) its salts - - -- argyria. Quicksilver (udrarguros), its oxides - hydrargyria. and salts - - - - - -Copper (Lupres, enprum), its exides and salts - - - - - evern Lead (molubdo), its oxides and salts molybdia. Antimony (stibi), its oxides and salts stibia. Arsenic, its oxides and salts - arsenicia. Sulphuretted hydrogen - - - hydrosulfaria. Oxalic acid - - - - - - exalia. Hydrocyanic acid - - - - - hydrocyania. Alcohol - - - - - alcoholia. Elaterine (claterium) - - - - claterinia. Nicotimine (tobacco) - - - - nicotimin. Atropine (helladonna) - - - - atropinia. Morphine (opium) - - - - - morphinia. Strychnine (nux vomica, St. Ignatius's bean) - - - - - - - - strychninia. Fungine (poisonous fungi) - - - funginia.

The metals and other elementary bodies having little affinity for water, or for the constituents of the organization, seldom, except in composition with oxygen and acids, produce disease. soluble compounds are inert, and of soluble compounds the intensity of action is apparently in proportion to the solubility, or to the power of pervailing the blood; and to the importance of matter or organ on which the poisonous affinities are exercised, destroying its normal composition, forming new compounds, which the poison unites with or sets free, and altering the vital actions, in a manner characteristic of the base. Liebig shows how, according to his ingenious theory of respiration-if the iron in the blood globules carry oxygen-the fatal effects of sulphuretted hydrogen and hydrocyanic acid may be explained by their well-known action on the compounds of iron, and thus enables us to conceive, if we cannot demonstrate chemically, the modus operandi of the most virulent poisons.

In very minute doses poisons have no visible effeet, or have a sanative effect on the organization; in large doses their action is generally violent and local (acute); in moderate, long-continued, repeated dores, characteristic series of effects are produced, such as the mercurial salivation, crythema, and tremor, lead colie, and paralysis. If small doses of substances, poisonous in larger doses, are innocut or remedial, food in excess acts by its quantity like a poison, and gives rise to acute indigistion, or to the trains of symptoms indicated by gout, plethora, bloated obesity. The alimentary liquors, of which alcohol is the basis, intoxicate in large dose; and frequent imoxication radices defining the harm similarly sis, and other pulliphyshal the grap na which may be designed the graphical pro-

alcoholia. The privation of the various kinds of fluid and food every day required by the organization, gives rise to acute symptoms (such as occurred, for instance, in the shipwreck of the Medusa), or chronic forms of disease, such as senryy, and the malady that decimated the Milbank Penitentiary; the body, acted on by oxygen, when it can no longer serve for food, becoming a poison to itself, or falling spontaneously into states of disorganization analogous to the effects of poisoning. The special disease arising from privation might be called pinia (peina, famine, hunger); from high living, observate (opservates, "cluborately cooking vietnals"); from cold, psychria (psuchres, cold); from heat, the rmia (the me, heat); without disearding the common terms starvation, scurvy, overeating, gont, chilblains, frost-bitten (cold 2), gangrene, coup de soleil, and some tropical diseases, or replacing the names of diseases which owe their origin indirectly to the excess or deficiency of food and warmth.

Many animals secrete venous of various kinds, and in others, such as muscles, which are used for food, poisons are accidentally generated. Epidemie, Endemie, and Contagious Diseases .- Zu-

motic diseases, or zumoses,

⁶ Miasm, properly so called, causes disease without being itself reproduced. * * * Carbonic acid and sulphurretted hydrogen, which are frequently evolved from the earth in cellars, mines, wells, sewers, and other places, are amongst the naost pernicious miasms." (Lich g.) Miasms produce diseases like ague, without being propagated by contagion; but the poisons-carbonic acid, sulplurreted hydrogen, and other gases, which are given off by organic matter in pairefaction, afford an illustration of their action. The miasm which excites intermittent fever may be designated papertine; and if it were not probable that modifications of the marsh miasm induce, in certain circumstances, remittent and yellow fever, specific names should be found for their principles. Rheumatic fever is apparently caused by a miasm.* Its changes of seat can scarcely be accounted for on the hypothesis that it is a local inflammation of the fibrous tissue.

Certain matters which have not yet been ana-

lyzed produce small-pox, glanders, hydrophobia. syphilis, measles, scarlatina, and other diseases; and as it was before proposed to give names to the well-defined diseases produced by poisons, so, for the purposes of reasoning, it will be equally useful to name these specific matters or transformations of matter by which diseases are propagated either by inoculation and contact (contagion), or by inhalation (infection). The following list exhibits the popular and scientific names of diseases in juxta position with the proposed names of their exciters; and it may be assumed hypothetically, that in the blood corresponding bodies exist which are destroyed, and by the transformation of which the exciters are generated or reproduced. The names in the second column terminate in a, except a few in s. Lyssa, (from lussu, rabies), the old Greek term, has been restored by Mason Good; I propose, for the sake of uniformity, to call paerperal fever metric: mumps, parotia, reserving parotitis for simple inflammation of the parotids; croup, trachete; and the disease from paineture in dissection, we care (netwo. the dead body.)

Diseases. Zumotic Principles Small-pox - - - - variola, - varioline. Cow-pox - - - - vaccinia - vaccinine. Glanders - - - optima - equinine. Hydrophobia - - - lyssa - lyssine. Syphilis - - - - syphilis - syphiline. Infection in dissecting necessia neensine. Erysipelas - - - erysipelas erysipeline Pherperal fever - - metria - metrine, Measles - - - - rubcola, - rubcoline, erysipeline.

^{*} The exciting cause of intermittent fevers, rheumatism, and [rheumatic] neuralgiz, is generatly admitted(?) to be malaria; and if viewed abstructedly, and with reference to their specific nature, it is probable that walarra is the only exciting one of these discress-Proceeds Mean hearth got

Scarlet fever - - - searlatina searlatineut pertussis - pertussine,
dysenteria dysenterine, Hooping cough - - pertussis -Dysentery - -Diarrher - diarrhœa Cholera - - cholerine - cholera -Influenza - - - - influenza influenzine. Typhus - - - typhus - typhine. Plague - - - pestis - pestine. typhine.

The existence of gangrenine, ergotine, ophthalmine, tetanine, miliarine, diphtherine, parotine, aphthine, tracheine, may also be admitted. It is maintained by some pathologists, that the same specific poison produces several of these diseases—crysipelas, necusia, and metria, for instance—but while the diseases are described as distinet, it will be most convenient to consider their exciters as distinct, although they may be convertible into each other, and be as nearly related as varioline and vaccinine.

The chemical composition of these principles is at present unknown; but as salts are distinguished from each other by their relations to other bodies, and, though they may have the same appearance in solution, are found to differ by the compounds which they form with other bodies in solution, so the existence is demonstrated by the effect, of the matter here called "tyssine," on animals, although it cannot be detected by the rough analysis of artoteial chemistry. The smallest quantity imaginable of tyssine inserted under the skin of a dog produces hydrophobia; and the bites of the infeeted dog will throw other dogs, and even human beings, into a state similar to that of the dog from which the charge of lyssine originally came. Varioline in the same manner produces small-pox, if the patient has not previously undergone its influonce, or the influence of vaccinine—a modification of varioline. The diseases of this class have been frequently spoken of as fermentations; and Liebig has now opened the way to the explanation of their nature by a reference to the phenomena attending the transformations of organic compounds. excited by the action of other compounds simultaneously undergoing analogous transformations, Thus yeast, which is gluten in a state of transformation, added to wort, which contains gluten and sugar, converts the gluten of the wort into yeast, and at the same time the sugar into alcohol and carbonic acid, the two transformations going on together, and the latter ceasing when the former ends. The yeast reproduces yeast, if gluten, from which it was originally derived, be present; and if the temperature and circumstances be favourable, fermentation may be spontaneous.*

It must be admitted, with respect to all the forms of these diseases, that the body, in the cycle of external circumstances through which it passes, may run into them spontaneously (in this they differ from the class of diseases referred to external causes;) for it is impossible to trace them invariably to infectious sources; it is not a priori more improbable that they, than that other diseases should arise spontaneously, and it is impossible to account for their existence in the world upon any other principle than that of spontaneous origin. Still the property of communicating their action, and effecting analogous transformations in other bodies, is as important as it is characteristic in these diseases, which it is proposed therefore to call in this sense expuncte; A single word, such as Zymotics, is required to replace in composition

See Liebig's luminous exposition of the doctrum of fermentation in his Chemistry of Agriculture, Physiology, and Pathology. Two vels.
 † From "umoo, 1" ferment; zymosis—fermenta-

the long periphrasis epidemic, endemic, ande ontagions diseases;" with a new name and a definition of the kind of pathological process, which the name is intended to indicate, persons who have not made themselves acquainted with the researches of modern chemistry, can scarcely fall into the gross error of considering this peculiar kind of diseased action, and vinous fermentation absolutely identical; or of considering that others entertain that opinion. Liebig draws a distinction between fermentation and putrefaction: the reasons are more urgent for distinguishing the pathological transformations from fermentation or putrefaction, while it is admitted that they are of a chemical nature, and analogous to fermentation: by which they are moreover to a certain extent explained, although so little is known of the series of chemical changes and products in any single zymotic malady, or of the chemical reactions of the living forces and organs. Small-pox is by hypothesis the transformation of varioline, and certain concomitant chemical changes in the blood; manifesting the important symptoms which fall under direct observation.

Some of the mobile principles are fixed; others are volatile; but the greater part of them are fixed and volatile in different circumstances. Necusine, pestine, syphiline, lyssine, equinine, and vaccinine, are the most frequently fixed; they give rise, when placed on the skin, particularly where the epidermis is removed, to their peculiar diseases; but contagion is not invariably the result of their contact; indeed in several of them it is the exception rather than the rule. Either there is no matter in the organization susceptible of transformation, or the specific transformation is overpowered by the vital energies; for in every ease, if the morbific principle (zymine) tends to impart its movement to the organization, the organization, animated by the natural forces, has a tendency to continue its own processes, and to impart its conservative movements to all the organic matters which are brought within its sphere.

Varioline is converted in the cow (as Mr. Cecley has shown) into vaccinine, and cow-pox affords an interesting illustration of the modifications which diseases undergo, and which may be imparted to them, by changes in their exciters, Vaccinine taken from the cow effects the transformation of the materies murbi in man as completely as varioline; but it reproduces vaccinine; and in the process is never fatal, never produces the variolous fever, and its vapour is never infectious like that of varioline. The mild form of small-pox which appears in persons modified by previous vaccination, or which follows small-pox inoculation, is an equally good example of the changes induced in diseases by the actual constitution of the individual, and the mode of infection.

Syphilis, crysipelas, necusia, metria, rubeola, scarlatina, and the other zymotic diseases, also put on different forms; which may be referred to the state of the exciter, the mode of its application, the matter on which the exciter acts, or the vitality of the patient. A modification of cholerine or of dysenterine, probably produces diarrhea. Louis considers dothinenteria (his fiere typhoide) a different disease from the typhus of this country and points out the ulcerations, particularly of the glands of Peyer, with the correlative phenomena, and the rose-spots disappearing under pressure, as establishing its distinct character. The differestablishing its distinct character'. ences in certain cases are unquestionable and may be expressed by dothinenteria and typhus; but the two forms of the disease occur in this country; the characters are frequently mixed; and they are not greater than are observed in scarlatina simplex, and scarlatina maligna, with black incrustations, and gangrenous inflammation of the throat; in the crythema and phlegmonous crysipelas of Mr. Lawrence, or in the varieties of other dis-

The blood which prevades the whole system is the primary seat of zymotic diseases; but this does not diminish the importance of the local phenomena with which they commence, proceed, or terminate; for they affect (as poisons do) particular organs more extensively and frequently than

* Louis.—Fievre typhoide. Vol. ii, p. 311

others, give rise to specific pathological formations or secretions, and derive their character from the losions and affected organs.

The heat disengaged in the se diseases suggested the term fever, derived from feveo, as fermentum is from fervimentum.

Some zymotic diseases recur, others happen only once in life, or, if they happen twice, it is the exception; this has been explained on the hypothesis that some but not all kinds of matter (zymin) are reproduced in the organization after they have been destroyed by transformation (zymesis) in attacks of disease.

The tendency of zymotic diseases to increase and decine in activity, is one of their most remarkable properties; and the suddenness of their outbreaks, with the great mortality of which they were the cause, excited at an early period the attention and solicitude of mankind. This tendency is indicated by the terms epidemic, and endemie; the latter serving to designate diseases which are excited by miasmata, and prevail in proportion to the quantity of miasm developed; the former, epidemic, denoting the diseases transmitted by man to man, independently of locality, or only dependent on locality, temperature, and moisture, as adventitious circumstances, statistical purposes, the epidemic, endemic, and contagious diseases, have been classed under one head, as they may all be excited by organic matter in a state of pathological transformation. Agne is not contagious, and is apt to recur; it therefore apparently approaches the class of toxical diseases; but I feel inclined rather to consider it a zymotic disease, in which, to use the language of Liebig, the exciter is destroyed as soon as it is reproduced; and this view is confirmed by the analogies of remittent fever, or yellow fever, so intimately allied in some respects with ague, in others with plague, and apparently contagious (though this is disputed) in certain circumstances. Scurvy is a transformation induced by the want or inadequate supply of vegetable food. It formerly decimated the English navy, and is now met with in certain prisons. Scabies and porrigo (both contagions diseases) are ascribed to an insect (acurus scabier) and a low form of independent organization. The mode in which zymotic diseases are propagated has afforded the ground of an interesting comparison between their diffusion, blight of vegetables, and the generation of animalcules

Sydenham referred, in the following passage, to zymotic diseases, which were so rife in London, formerly, as to divert attention from pure inflammations; and, as they approach nearer than other diseases to the definition of species in natural history, justify the comparison which be has instituted:—

"If the humours are retained in the body beyoud due time, either (1.) because nature cannot digest and afterwards expel them, or (2.) from their having contracted a morbific taint from a particular constitution of the air, for (3.) lastly, from their being infected with some poison; by these, I say, and the like causes, these humours are worked up into a substantial form, or species, that discovers itself by particular symptoms, agreeable to its peculiar essence; and these symptoms, notwithstanding they may, for want of attention, seem to arise either from the nature of the part in which the humour is lodged, or from the linmour itself before it assumed this species, are in reality disorders that proceed from the essence of the species newly raised to this pitch [zyminc]; so that every specific disease arises from some specific exhalation, or peculiar quality of some humour [zymin] contained in a living body. Under this kind may be comprehended most diseases which have a certain form or appearance; nature, in fact, observing the same uniform method in producing and bringing diseases to a height or uniform method in crisis, as she does in the production or growth of plants or animals; for as every plant or animal is possessed of peculiar properties, so is it likewise in every exaltation of any humour, after its being come to a species or disease. We have a clear proof of this every day, in those kinds of excresrences that grow on trees and shrubs (occasioned by the ill quality of the nutritious juice, or other

[†] From :umoo, I ferment; xx mosis—fermentation, and zyma - ferment, may also be employed
in Fuglish, not in the sense which they have in
Greek, but as general designations of the morbid
processes and their exciters, Zymosis, and the
verb from which it is derived, occur in Hippocrates. See a good note and quotation from
Galen, by Fesius, in the Geonomia Hippocratis,
appended to the Geneva edition (1662) of the
works of Hippocrates. Coction appears to have
been used by the father of medicine with the same
qualification; as challition and fermentation by
Sydenham. See his Treatise on Ancient Medicine, vol. i. Cuvres Complètes d'Hippocrate, par
E. Littré, 1839.

causes), in the form of moss, misletoe, muslirooms, and the like; all which are manifestly different c-sences or species from the tree or shrub that bear, them, "-Sydenham's Works, trans. by G.

Sydenham's methods of treatment were adopted by him, and recommended, as the results of experimental investigation. However, their use might have been suggested, their efficacy was determined by their apparent influence on the recovery of patients; but, in his exposition of therapeutic principles, he keeps constantly in view his theory of "commetion" (commetio); " a general term which he chooses in order to prevent all fruitless dispute about words that might arise from the use of fermentation, or ebullition (fermentatio vel ebullitio), which, though they may seem harsh and metaphorical to some, are capable of a commodious interpretation." Thus, in speaking of "continued fever," he says, " with regard to this disease, I judge that the genuine indications are to keep the commetion of the blood [zymosis] within such bounds as suit the design of nature, so as to prevent its rising too high on one side, whence dangerous symptoms might follow; or sinking too low on the other, whereby either the exclusion of the morbific matter might be hindered, or the endeayour of the blood affecting a new state be frustrated*†

The early medical observers have directed attention to the analogies zymotic diseases have with combustion, fermentation, putrefaction, and poisoning. These analogies have been, to a certain extent, confirmed by the researches of modern | chemistry; and Liebig has been led by the study of organic transformations,-fermentation, putrefaction, decay,-to develope a theory invented by the greatest practical physicians to explain the phenomena of symotic diseases,

Liebig observes, "that physicians had referred formerly to fermentation merely by way of illustration?" from which it is evident that he had not had time to consult the English medical classics on this head, or the would have discovered not, indeed, an anticipation of his own admirable generalizations, but a theory very similar to his own,the basis of their pathology,—founded upon en-larged views, and well calculated to prepare the way for his researches and the researches of other

Morton, in his Pyrctologia, calls the principle thich it has been proposed in a previous page to designate generically symine, "fermentum tementary" and the following definition is printed in italies in the introduction, and applied in the subequent chapters of his work to the explanation of all the "moobj universales acute"—

. . . "fomitem febriferum (the *fermentom venatum of a previous sentence) asseramus esse—Deleterium quid in spirituum systemate deliteseens, quod fermenti ad instar cos adoriens atque ce tro primum exagitans, deinde humoribus ecundo quasi momento, varias mutationes atque qualitates merbosas nobis sensibiles impertit."— This, he adds, is his general hypothesis—"nestram generalem hypothesin."

Here we have the " deleterium quid" communicating its action like a ferment to the latent asunted constituents (spirituum systemate, and by

" On the continued fever of 1661-4, sect. 1-4, He adds, "But since the terms fermentation and ebullition have prevailed among the modern phyicians, I have not scrupled to use them occasionally, meaning only to convey my thoughts more easily thereby."

† Id. act. 5. See also on the regular small-

pox, 1667-9, sect. 30-33,

Morton adopted the hypothesis of animal pirits from Peruch, and though it enabled him to exid in many phenomena happily, he did not fail to fall into absurdities, (for so we must now call them.) by employing it to explain everything: till such passages as the following admit of a cientific construction, and are another proof that the exploded theories of ingenious men always contain traces of important truths.

Spiritu animale a see ta enegyetekos seu primum principium activum, et quasi fermentum universale totius corporis, a quo sanguis et humores varie Ludg. 1676.

a secondary impulse, as it were, producing perceptible transformations (mutationes) in the blood, tissues, and secretions. The sentence also recals a principle in physics, which Liebig has quoted in the words of Luplace and Berthollett, and to which he appears to think all chemical transformations may be referred:-- "A molecule, set in motion by any power, can impart its own motion to another molecule with which it may be in contact,

The three great contemporaries, Sydenham, Morton, and Willis . d in London when plague and epidemie diseas is prevailed, and much as they differed, or were mistaken, on some points, all annonneed more or less clearly the zymotic hypo-They were not, it must be borne in mind, mere chemiatric theorists: they had studied diseased action as assiduously and with as much sagacity as modern chemists have studied fermentation; Willis was a great anatomist; Sydenham and Morton have left original pathological delineations, which have never been surpassed, and laid down plans of treatment which are still followed,

Liebig, Dumas, and the chemists of this country, will, we sanguinely hope, not rest satisfied with what has been done, but continue to prosecute their labours with ardour and success; and from the study of the series of transformations of nitrogenous compounds, proceed to investigate the transformations of the blood, tissues and sceretions which accompany the production of varioline, typhine, and the other zymotic principles.

The differences of cancer, pneumonia, burn, and small-pox are well marked, but there are some points of resemblance between them; and in the groups, of which they may be considered types, many diseases occur, which have undecided claims to a place in the four classes, and may be referred. in the present state of our knowledge, indifferently to either group, so far as statistical purposes are concerned. The diseases of the epidemic character present the groutest difficulties in classification. and bave given rise to most discussion. The importance of the question of contagion,—of the mode in which epidemic diseases are propagated, -and the laws by which they are governed-has induced me to reserve it for inquiry when the laws of those epidemic diseases, which the registers enable us to investigate, are under discussion. Upon

agitantur, et immutantur, non dubito. T. 2, p. 7, 8. Willis employed the chemical theory and the few chemical facts known in the seventeenth century with still greater rashness in his treatises do ferrentatione and de febribus; yet he has many felicitous anticipations of modern deductions, and Liebig will admit that in the following passages the Oxford professor referred to fermentation for something more than an illustration. He is speaking of small-pox, measles, (and scarlatina.) Convenit enim homini, emni. soli, et somet variotis and morbillis atliei, (p. 165.) . . . ista diathesis, seu naturalis praedispositio, que genus humanum ad hunc morbum inclinat, videtur esse labes quedam seu impuritas sanguinis, inter prima feetus rudimenta in utero concepta. . .

Licet autem venenata hujus morbi semina utplurimum semel, et unica ægritudine solent difflari; quandoque tamen accidit, ut parte miasmatis ad-bune relicta, bis, aut ter ægri in hune affectum in-

Causa eridens, que hace sembra formentativa commovet, et siepissime in actum deducit, triplex assignatur, scilicet, contagium aliunde susceptum, dispositio aeris, ae immodica sanguinis et humorum perturbatio. Contagio hune morbum in alios scrpere, lateque grassari, quotidiana experientia manifestum e ti scilicet a corpore infecto continuo devedunt effuria, que ab aliis exporibususcepta statim, instas veneni enm sanguine ferment seunt, et semina ejusden affectus latentia, ipsisque horses non resentant, et in frujus morbi ideam dispomunt, nec solum contactu, sed ad distans miasma

He adds that the "immedica sanguinis, et hu-morum perturbatio" may arise from immederate exercise or excesses,-Opera Medica et Physica,

gazaresent occasion, it will be sufficient to state no diseases have been placed in the class which have not been prepagated by inoculation, been proved to be infectious, or described by good authorities as endemics or epidemies.

LECTURES ON CHEMISTRY.

By JOHN SCOTTLEN, M.D., Lecturer on Chamastry, at the Aldersgate school of Medicine.

The two simple bodies which have come under our notice, do not unite in any proportions by direct mixtures, a circumstance which seems to indicate that their mutual affinity must necessarily be very slight; however by certain indirect methods to be mentioned to you in this lecture, they may be made to combine in no less than four proportions, -the composition, and the names of which will be indicated by the table here exhibited:—

Protoxide of Chlorine Synon, Euchlorus (Davy)] .. 1 Hypochlorous Acid (Balard) Peroxide of Chlorine 1 .. 4 Chlorous Acid Chlorie Acid Perchlorie Acid

The slightest glauce at this table leads up to believe that there are other compounds of chlorine and oxygen as yet unknown. In order to render the gradation perfect, so far as it goes, two compounds of chlorine with oxygen must be discovered, and inserted between the protoxide and peroxide, and one between chloric and perchloric acid.

The protoxide of chlorine was discovered by Sir H. Davy, in 1811, and on account of its peculiar colour, which is a very deep yellow green, he termed it euchlorine. He prepared it by mixing together in a retort two parts of chlorate of potash, with one of water, and one of hydrochloric acid of commerce. To this mixture a gentle heat was applied, and the gas in question came over, nece sarily contaminated, however, with a variable portion of chlorine, which circumstance was the cause of a great deal of dispute in regard to the exact composition of this gas. Davy found its specific gravity to vary, which circumstance, as you are aware, must necessarily have added weight to the supposition that the euchlorine of Davy was not an actual chemical compound. Moreover Davy imagined that five volumes of this gas expanded, on the application of heat, into six, which proportions reduced to their lowest terms are in the ratio of 11 to 13; since half a volume is regarded as the atomic or combining size of oxygen. Were these data correct, the atomic or combining size of this gas should be 14 volumes, which would be altogether dissimilar to the combining size of any other gas. Hence until lately, the euchlerine of Davy was thought by many clemists to be merely a mixture of peroxide of chlorine, and pure chlorine, in variable proportions. Soubciran, I believe, was the first who suggested the probability of these conditions. He passed it over calomel. by which the excess of chlorine was absorbed, and peroxide of chlorine was liberated. Sir H. Davy, too, had observed that water resolved it into the same gases. It remained for M. Balard to clear up the difficulty; this gentleman, during his investigation of the nature of bleaching compounds, succeeded in making the protoxide of chloring by an entirely different process, and in a state of complete purity. His plan consisted in agitating peroxide of mercury with water and chlorine gas; the latter abstracted from the oxide of mercury, a sufficient quantity of oxygen to form the protoxide of chlorine, which, combining with the water, formed a yellow solution, analogous to the solution of Davy's euchlorine in water. This liquid is now distilled in vacuo, by which means a dilute solution of the protoxide of chlorine is obtained, and from this the gas itself may be developed by the following process. I take an inverted ressel of mercury and throw up into it a little of the fluid; next I insert a few fragments of nitrate of lime,

which absorbs water, and together with it, forms a layer that swims on the surface of the mercury, and protects it from the action of the gas. toxide of chlorine, thus obtained, and called by Dinnas, hypochlorous acid, is found to be composed of t volume or equivalent of chlorine, and half a volume or Lequivalent of oxygen condensed into 1 volume; a fact demonstrated when the gas is decomposed by means of a heated substance, under which circumstances four volumes expand into six two of which are oxygen and the remainder chlorine. For all common purposes of illustration, the impure protoxide, or enchloring of Davy may be employed, inasmuch as there is not present chlorine enough to veil its leading properties. With respect to the decompositions in the processes for making it, they are as follow. When hydrochloris acid, water, and chlorate of potash are heated together, the results are protoxide of chlorine, free chlorine, water, and chloride of potassium; this you are aware was Davy's original process. As to Balard's process, the rationale is that peroxide of mercury yields up oxygen to one portion of chlorine, and another portion unites with the mercurv to form a chloride of that metal. If the oxide be in excess (as it always should be,) the chloride and oxide of merenry unite, forming the oxychloride. The properties of this gas, besides those which have been casually mentioned, may be briefly summed up. Its colour is a very deep yellowish green, and it possesses bleaching quali ties. Unlike chlorine, it does not support the combustion of copper leaf; water absorbs 100 volumes of it. On plunging a heated wire into this gas it explodes, although not very violently, expands in the ratio already mentioned. Its specific gravity by theory is 3021-3, its atomic weigh, 44, and its formula Cl. O. This gas, which Balard terms hypochlorous acid, combines with bases forming hypochlorites. These are valuable bleaching agents, and will hereafter be referred to again.

The next compound which we have to investigate, the peroxide of chlorine, called also chlorous acid, and hypochloric acid, is a very dangerous agent, and must be prepared and manipulated with much caution. It was discovered in 1815, by Sir H. Davy, who obtained it by heating gently a mixture of sulphuric acid and chlorate of potash. The decomposition is exceedingly simple; sulphuric acid sets chloric acid free, which immediately breaks up into two new compounds, peroxide of chlorine, and perchloric acid; the latter becomes attached to petash, forming perchlorate of potash, mixed with bisulphate of potash, and perexide of chlorine escapes. In books, this very dangerous compound is recommended to be prepared in a retort, the source of heat being a water bath carefully maintained below the temperature of 212 deg., and the gas is to be collected over mercury, or by displacement. I will show you the explosive properties of this gas presently, evolved on a much smaller scale. After witnessing these effects, those who like to make peroxide of chlorine in a retort may do so. I content myself with preparing it in a tube.

Into a little tube containing a few grains of chlorate of potash, I pour a few drops of sulphuric acid, and now I apply the necessary degree of heat by holding the tube in my hand; the gas is rapidly developed. I shall not transfer it into another tube, but will test it in the same. Its colour you will observe is a very bright vellow, and its smell is narcotic. It is rapidly absorbed by water, and the solution blenches. So feeble are the nurtual attractions of oxygen and chlorine in this compound, that even the slightest causes separate them, and a violent explosion is the consequence; under these circumstances, 100 volumes expand into 150, 100 of which are oxygen; proportions which correspond to 1 equivalent of chlorine, and four of oxygen: its specific gravity (calculated) is 2337.5. In order to demonstrate the explosive properties of this gas, I first immerse into the tube containing it a hot wire, decomposition immediately results, attended with a loud report. Into another tube containing it, I immerse a bit of phosphorus; a violem explosion again is the consequence, and the physphorus burns brilliantly in the resulting mixture of oxygen and chlorine gas. by this test, the wo may be distinguished.

This experiment is not muttended with danger, but I will show you a modification of it which is quite free from danger, and which is, at the same time, exceedingly pretty. I drop into a deep conical glass containing water, a few crystals of chlorate of potash and phosphorus; on the two latter I now pour a little sulphuric acid, by means of a finnel; peroxide of chlorine is evolved as before, and coming into contact with phosphorus under water, the explosions which result are quite free from danger.

This compound is very justly termed by chemists, chlorous or hypochloric acid. It unites with bases to form a class of salts termed chlorites, or hypochlorates, but not being of much importance we need not enlarge upon them. The next compound in our list is chloric acid, a compound of 5 eq. oxygen, and I chlorine. It is pre-pared by adding to chlorate of baryta, sulphurie acid, a substance which has the property, as every chemical tyro knows, of forming a most insoluble substance with baryta, (sulphate of baryta,) so that chloric acid is liberated and remains combined with the water, from which, like the nitrie, it cannot be completely separated. This acid cannot be obtained solid; when a solution containing it is evaporated, it is resolved into chlorine, oxygen, and perchloric acid. It neither bleaches, nor precipitates a solution of nitrate of silver. In its strongest form it possesses the consistence of an oil, and from its facility of giving oxygen, it sets fire to many organic bodies, and is a powerful oxidising agent. This acid forms by uniting with bases, a class of salts termed chlorates, which may be recognised by the following properties. They dellagrate when thrown on charcoal, and paper imbued withthem becomes converted into touch paper; any salt having this property must be either a nitrate, a bromate, iodate, or chlorate. By exposing a chlorate to a red heat, it is converted into a chlorite and chloride, the latter is usually the more soluble of the two, and its solution has the property of yielding with ni-trate of silver a precipitate which is soluble in a weak solution of ammonia, and insoluble in nitric heid. Moreover, chlorates, become red on the anplication of sulphuric acid, which is a perfectly distinctive test. I have mentioned that chloric acid is prepared from chlorate of baryta. I ought, perhaps, also to mention how this chlorate of baryta is obtained, premising that if potash be substituted for baryta and exposed to the action of chlorine, precisely analogous reactions take place. On passing a stream of chlorine gas through a solution of potash, a combination results, the composition of which is very imperfectly known. Its nature will be discussed at a subsequent period of our lectures. I must content myselfat present by saying that when boiled, oxygen is given off in great quantity, and the dry material which remains, is a mixture of chlorate of potash and chlorate of potassium,-the former salt crystallizes first and may be separated. If baryta be substituted for potash, analogous results take place.

The next and last compound of oxygen and chlorine, is the perchloric acid, remarkable for the large quantity of oxygen which it contains, and for the very insoluble compound which it forms with potash; consequently it is a very excellent test for this alkali. With respect to the preparation of perchloric acid, I must remind you of the insoluble salt prepared during the evolution of peroxide of chlorine. This is the perchlorate of potash, which, by distilling it with a mixture of equal parts sulphuric acid and water, yields ditute perchloric acid, a condition in which it possesses the greater utility. However, it may be obtained in a solid form by using a great excess of sulphuric acid. Dilute perchloric acid is always kept in chemical laboratories as a test for potash, which it precipitates, as also do tartarie, with the hydro-fluo-silicic acids, and chloride of platinum. No substances, however, precipitate soda, hence the two alkalies may thus be distinguished. Although perchloric acid contains such a large quantity of oxygen, yet it is a remark. ably stable compound, which is rather extraordinary. It is not decomposed by hydrochloric acid, although as we have observed chloric acid is;

SPINA BIFIDA.

(To the Editor of the ' Medical Times,'

SIR, -As this disease appears to have attracted the attention of some of your correspondents, the following case may be interesting.

I was sent for some time since, at Maidenhead, to see a male child, which was described in the note as "unnatural." It was a patient of Mr. Bishop, surgeon, at Maidenhead, was ten days old, fed very heartily, and the features were those of a child considerably older. It was an ordinary case of spina bifida, but the tumour was situated somewhat higher up than usual. It was agreed by Mr. Bishop and myself, that nothing could be done with any reasonable hopes of success, and the task of communicating this intelligence to the mother fell to my lot. She received the opinion with wonderful equaminity, and requested me to return to Maidenhead again. At the termination of about three weeks I again visited the patient. It was still alive, but sinking fast. Mr. Bishop was again in attendance. The child, as predicted, died the following night, and the tumour was examined by Mr. Bellis, surgeon, the partner of Mr. Bishop. The post-morten examination presented the usual appearances. The only circumstance attending the case which seems worthy of notice, is that the patient lived for a month, otherwise in good health, and even at that early age, knew its nurse and mother.

I agree with your correspondent "Medicus" that "it is much to be regretted that the repositories of medical facts are so little consulted by the young practitioners of the present day, who frequently bring forward as new, observations and operations that have been made or performed over and over again, before." fact is, that as soon as a young man passes the Hall' he thinks he has unlocked the stores of medical knowledge, whereas he has barely possessed himself of the key.

I am, Sir, your obedient servant,

EDWARD BINNS, M.D. 21. Montagne-sheet, Fortman-square.

f It is rather singular that the modest enquiry which led to the smart objurgations last week of "Medieus," and the notice now, of Dr. Binns, came from a gentleman (an M.D. also) who, we have reason for believing, is the senior of both, and whose communications to us show him to be anything but an inconsiderable reader.—Ed.]

SULPHATE OF QUININE IN RHEUMATISM.-M. Devergie prescribes five grains of sulphate of quinine, either in the form of pill or mixture, to be taken four times a day. This quantity to be increased according to the intensity of the disease and the tolerance of the individual. He has never exceeded a drachm or a drachm and a half in the 24 hours. He advises reserve in the administration of this medicine, and especially, not to commence with such elevated doses, as some have recommended. M. Devergie cites two cases which terminated fataily, in one of the Parisian hospitals, in consequence of the cerebral affections determined by too large doses of this medicine. He gives the particulars of three cases of acute articular rheumatism successfully treated by this plan; but it is important to remark, that none of these cases presented anything beyond simple theumatic pains. and were unaccompanied by redness, swelling, or acceleration of the pulse. In six cases of chronic rhenmatism, the pains ceased in less than three weeks, under the employment of this medicine. Great caution is requisite in applying this treatment to plethoric subjects or those pre-disposed to cerebral congestion.

TO CORRESPONDENTS.

A Constant Reader,-Om first edition is a ody every Thursday evening at five o'cloc', and our Correspondent when told that other wedical journals are sot published until Fridoy or Saturday, will so that it is not we that sin, but we that are sinued against. As last week we saw the Hunterian given in another journal, we should not be surprised to see our case of Mr. Carlile similarly given in this.

An Old Practitioner .- We shall consider the

X. Y .- The Communication should be unthenticated. P. T. short to easilt a respectable practitioner.
P. N.—Mr. Hay—Pater—Mock Coroner—A

Constant Reader, Edinburgh—declined. The raws by Mr. Brunel, and Mr. Philip Kean are

ander consideration.

Mr. James Pearsons, Ancoat - Street, Manchester. - It this weath man, uh i ha, been on ma books a very considerable time without paying a single fraction of his acrears, or even noticing them, do not forthwith settle his account, the publisher will decline sending him any further numbers. I medical journal, however good, is not so much an article of necessity as to justify in any case dishernesty as a means of pro-

THE MEDICALTIMES.

SATURDAY, FLURUARY 25, 1843.

Curs, Catilina, tuis nat dibus atque Cedhegi Inveniet quicquam apimeus? Arma tamen vos Nocturna et flamm is domibus templisque parastis Ut Braccatorum puerl, Semonumque mineres Ausi quod liceat tunica punire molesta.

It has been well said, by an crudite friend, that the future Plutarch of our age when recording the biography of its great men, will find it of service to divide the life of one of its purest the tertins a callo cecidit Cato of Lord John Russell)—we mean, of course, Mr. Wakley-into the two periods preceding and following the conflagration of his drug-shop. The great fire of London-lic insists-was not a more remarkable, nor that of Moscow a more accidental. circumstance, in the annuls of those two cities, than the little fire of "the beggarly account of empty boxes," in Argyle-street. to the honomable member for Finsbury. As London rose, placinix-like, from the one, so did Mr. Wakley from the other: and what the metropolis has consequently grown among cities, that has the ex-apothecary beome among his brethren. Considering this, however, if not a bad, an imperfeet distribution of epochs, we would take a somewhat different direction. We should choose to divide the honourable member's important life into the two grand periodsbefore and after his accession to the dignity of metropolitan coroner. In the first, we should picture him as centralizing every less profitably engaged energy in the work of proving, by words, the uselessness of nonmedical coroners. In the second, we should paint him similarly absorbed in demonstrating, by facts, the mischicvonsness of medical coroners. If any further division would be required, it would have reference to the crowning period, apparently not far distant, when his efforts in both directions, verbal and active, shall have accomplished the utter cossation of inquests, under either medical or non-medical coroners.

prove the genuineness of their mission by the accomplishment of some one great object. Is this distinction-which is supposed to have characterized Socrates, Aristotle, Alexander, Mahomet, Luther, Baeon, Newton—to be unpossessed by Mr. Wakley? Belonging evidently to their honoured order, it is not to be doubted that a great mission is entrusted to his destiny. If it be not coronatorial destruction, what-(will any kind reader tell us)-what is it! In every other field of action, how completely has he belied expectation! In every other public sphere of action, how emphatic a nullity! medical reformer, how entirely has he eluded notice: as a statesman (a statesman!) how entirely has notice eluded him! In every thing, but his one mission of destruction, how true to his great destinyhow in plenitude a nobody!

Many persons, we are convinced, have thus formed humble opinions of Wakley's mental powers-others, of his moral virtues -from not paying attention to this grand guiding, but secret principle of his life. In the darkest passages of morality, in the foulest lanes of literature, Wakley was only taking, if not the straightest, at least the surestway to the goal of coronatorial destruction. Who that hears this disclosure of a purpose so secret when unnoticed, so obvious when once thought of, does not summon up at once as proof, the earnest, if clumsy, re-productions en petit) of Cobbett's powerful style, directed, in the Lancet, against non-medical coroners, till the single-minded writer was himself made medical coroner? Could any one, reading them, doubt that non-medical coroners were a nuisance as costly as foul? And since Wakley, as a boon to the public. accepted the coronorship, what one thing has he, or could any man have done, so constantly and energetically, as the demonstration of the mischievousness of medical coroners? Do our readers believe that, to a man of Wakley's superior senses-nay, to any man not a lunatic-his perpetual wranglings with the reporters (the Mercuries, as it were, of the great Joves of the press) could have had any object less than this! - or his bitter collisions with the chiefs of the police-courts ?--or his deadly enmities with the Middlesex magistrates? or his contemptuous disregard and neglect of his former medical brethren? The very notion is absurd: and the ready key to all these apparently anomalous and manaical proceedings is found in the simple fact discovered by us (and we will not be robbed of the honour of the discovery) that they all form a portion of the grand scheme of this great man's life-the bestruction OF CORONIES' INQUESTS,

But though all this was much-so much as to be only excused by the great good of the end such equivocal means were to achieve -Mr. Wakley had the mortification to find Did he, therefore, the sacrifice useless. give up the great aim ? To answer in the It is said that your truly great men affirmative, would be to indicate a poor novement in the drama of a great man's life

acquaintance with his character. On the contrary, as the necessity increased, so did the efforts: much was followed by more; and Mr. Wakley has so far done violence. on the one side, to his hatred of public money, as to hold as many inquests as the utmost ingenuity could manage weekly to manufacture for him; and, on the other side, to his love of public justice, as to make these inquests perfectly inoperative for the detection or prevention of guilt? Could a great man, in a noble cause, do more? We know the incredulity of our age towards transcendant merit, and will not have our eulogiums rest on unsustained assurance. We have been furnished with one instance, which, if taken as a specimen case, will do more in illustration of Mr. Wakley's modus operandi, than a folio of the vague panegyries his friends (if he have any) might be disposed to heap upon him. Here it is :-

For the last few days the little suburban village of Hornsey has been roused from its ordinary quietnes in consequence of the sudden death of a young man named Pledger, carrying on the business of a chemist in that neighbourhood. Reports were seen spread that he had died from the effects of poison, which coming to the ears of the parish beadle, that functionary thought it was his duty to circulate the report by waiting upon Mr. Wak ley, the coroner, who ordered an inquest to be held, The jury was empanelled on Wednesday last, and on viewing the body with them, the coroner is reported to have used the following words, at the same time lifting up the deceased's head ;-" Ah, gentlemen, this is a sudden death; the man has died from a di eased heart, I've no doubt, and there returned to the inquest-room, and, after hearing evidence as to the suddenness of the deceased's death, returned a verdict of "Natural death." The friends of the deceased not being so fond of doing without medical testimony as the coroner, determined on having the body opened, and the actual cause of death explained. Accordingly, Mr. Baker, of the New North-road, and Mr. Hands, surgeon, undertook the post-morten examination, and on opening the abdomen there was a strong smell, like prussic acid, On opening and analysing the contents of the stomach, nearly an onnce of the essential oil of almonds was found, enough to kill upwards of a dozen persons, and from the effects of which Mr. Pfedger had died. On the result being made known to the friends, it was understood that the whole facts would be laid before the Middlesex magistrates, and that proceedings would be taken to quash the inquisition. The above shows the necessity of post-morten examinations in all cases of sudden death, without taking the dictum of either a medical or a non-medical coroner as to the cause.

If the non-medical journal (the Times) expressing this last opinion, wish to imply a censure on Mr. Wakley, because he, a medical coroner, and the former proprietor of a medical journal, to save the fee to a medical man for a post mortem examination, -allows crime all the certitude of concealment which the abuse of coroners' law can give it-we venture, with much respect, to express a difference of sentiment. It is plain the accuser has not reached the altitude of the coroner's influencing motive; he does not hold the golden key to those grand views which we have discovered: it was not known to him that this was part of a system—an essential step to the de-

-one link in the vast chain of coronatorial extinction!

A small man, aghast at small matters, might be weak enough to stagger in his course by the consequences of such unenquiring inquests, and unveracions verdicta. If such off-handed assumption—he would say-of the offices of both witness, jury, and judge, be tolerated, what a rendezvous will Middlesex become for every person inclined to make away with a rich, useless, and everlasting old uncle, aunt, or parent? The murderer has only to introduce his victim within Mr. Wakley's jurisdiction, dose him with a powerful poison, and he will have the honourable gentlemen driving up to his house-" lifting up the deceased's head," exclaiming, " Ah, gentlemen, this is a sudden death: the man has died from of a medical coroner's certificate of his innocence, with the attestation that his relative died a "Natural death" persons who can thus reason, argument must be thrown away. They can neither see the advantage of centralizing the body of poisoners in the medical coroner's district—(and we wonder in which other's they are offered equal attractions?)-nor feel how incomparably trifling are such petty considerations, when poised against the fulfilment of the great object of a great man's life-the destruction of the institution of coroners!

But seriously-how long are we to have inquests a heavy burden to rate-payers-a severe time-taxer to juries-merely to form a legalized coverer of poisonings? Is the administration of justice to be mocked for ever by expensive enquiries, or rather inquests, about accidents beyond the possibility of suspicion as to a culpable cause-and to have the sudden deaths which may have arisen either from poison or disease, or both-the distinction of which, no man can reach, except by post-mortem examinationand are we to have these placed beyond the pale of legal investigation, by a verdict of natural death, dictated by an ignorant and impatient coroner, and accepted by a silly jury, before whom not the least atom of reasonable, nav, ATTAINABLE, data, is allowed to be produced?

Since the above went to press, Mr. Wakley has rallied the scattered jury, and after due discipline, has succeeded in arraying them against the Times' statement of his inquest in formal columns of leaden type.

We were not unprepared for this manœuvre. The day before the version of the daily paper appeared, a gentleman narrated to us all the circumstances, and we delayed their publication from our last number, simply, because we were resolved so to give them, as to leave the worthy coroner no corner in which his cunning might succeed in sheltering him. But though prepared for the trick, we must own we are still surthe trick, we must own we are still sur- habit as you now see me. My chest, which was prised at its clumsiness. If we understand flat and contracted, enlarged in an extraordinary the tube, soon removed these symptoms of relapse,

the charge, its gravamen is, that Mr. Wakley, in a case of sudden and suspicious death, caused no post mortem examination, and though the party was poisoned, Mr. Wakley gave his certificate that he died a natural death. The jury do not rebut one iota of this accusation. On the contrary, while tacitly admitting all this, they declare what was previously unstated, that one of the jurors asked the pertinent question (what a strong presumption against the coroner) " whether the medical man, who saw the deceased after death, should not be called in ?" The coroner's answer satisfied the juror that there was no cause for his testimony! That the deceased was poisoned is beyond doubt; we have, for the fact, the personal assurance of a medical gentlemen present at the autopsy: that Mr. Wakley a diseased heart. Eve no doubt; and there declared, without examination, that he will be no occasion for a medical man,"— I was nor poisoned is equally indisputable; and the murderer will carry the immunity it is proved, irrefragably, by the recorded false verdict " NATURAL DEATH."

CURABILITY OF CONSUMPTION.

(Continued from page 325.) (To the Editor of the * Medical Times.")

SIR,-When we consider the exquisitely fine gossamer-like tissue of the air-cells, their prodigious number, and immense extent of surface, we neel not wonder at the facility and certainty with which they can be expanded, and the important changes consequent on effecting this object. Their free and ample exposure to the atmospheric air is necessary to prepare the blood by arterialisation, for the nutriment of the system, and in proportion as their area is invaded, will the sanguitication be imperfect, and the due evolution of the animal heat interfered with, on which the healthy action of all the vital organs so absolutely depends.

The following eases corroborate those already adduced, in proving the power which pulmonary

expansion exercises over consumption.

M. Lebeau, physician to the King of the Belgians, and principal physician to the military hospital at Brussels, in the preface to his translation of Dr. Ramadge's Work on consumption, mentions, that having long devoted his attention to this disease, he has been himself struck with the conviction that asthma has the power of arresting, as well as preventing it, and that he could cite a considerable number of facts to illustrate this statement, but confines himself to one of recent date, and complete in its details. M ---, aged 48, a captain of an infantry regiment, presented himself April 26, 1836, at the military hospital at Brussels, with a view to obtain a certificate to exempt him from active service, in consequence of habitual dyspuoca. He complained of no other ailment, and was of full habit; his chest of remarkable amplitude, respiration wheezing, the sibilant rate was heard throughout, the heart's action regular and moderate, the pulse calm and natural, and the face exhibiting no signs of venous congestion. He gave the following account of his case, in the presence of Dr. Coombe, of Edinburgh, who happened to be there at the time, Drs. Limauge and Bietve, of Brussels, and several pupils:— In 1816, after severe fatigue, I was attacked with cough and copious expectoration, wasted away rapidly, and was subject to shiverings in the daytime, and perspirations at night, with wandering pains below the collar bones. My medical attendants repeatedly assured me I was consumptive, and could not long survive. While matters were in this state, I was seized with a difficulty of breathing, to such a degree, that I was obliged to get out of bed at night and repair to the window to breathe fresh air. From this period my strength began to return, the perspirations ceased, and $\widehat{\mathbf{I}}$ soon became of as full

manner, and I was completely cured, save the diffleulty of breathing, for which I could obtain no remedy.

M. Lebeau adds that Dr. Canstatt, a young physician of great merit, had related to him a similar and strikingly illustrative case which had occurred in his own family. Among other remarks worthy of attention in his preface, he makes the following very interesting and curious one :-" Taking into consideration all the circumstances preceding and accompanying this disease, and the appearances after death, I have had the most satisfactory evidence that the compression on the upper part of the chest of young soldiers, caused by the weight of the arms and accoutrements, has contributed very much to the occurrence of phthisis,

The subjoined cases are submitted as examples of the benefits derivable from pulmonary expansion

by measured mechanical respiration:

Miss ---, aged 23, the daughter of a member of parliament, was attacked by consumption, di playing itself in the usual manner by cough, expectoration, night sweats, and gradual emaciation. A few months after its commencement, one of her tonsils acquired considerable size, and coincidently her symptoms showed signs of amendment. tonsil, after a short interval, suppurated, and the signs of amendment soon disappeared. Her relatives now began to entertain serious apprehensions, more especially as she had lost a brother and two sisters by consumption within a few months. Dr. Ramadge was called in, and felt satisfied, upon examination and enquiry, that disease had commenced in the right lung, and been interrupted by the enlargement of the tonsil. He also ascertained that it now existed in the summit of the left lung. The chest was flat and contracted, both the collar bones very prominent, and the infra-clavicular depression on the left side remarkable. The constitutional disturbance and preternatural heat of the chest were reduced by the application of a few leeches occasionally, between the second and third ribs of the affected side, and the administration of nitre and tartarised antimony, &c. Tonics and sedatives also were prescribed, to support the system and allay irritation. The patient however, was taught to place her chief reliance on the artificial respiration, and not expect results sooner than a month, that is, in a very sensible degree. By perseverance in the use of the inhaling apparatus, her strength gradually returned, the appetite improved, the necturnal perspirations ceased, the quality of the matter expectorated was amended, a satisfactory respiratory murmur became audible, the frequency of the pulse abated, the countenance resumed its former animation, the chest expanded, and she increased in flesh, and the entire constitution was renovated. Before these desirable results were gained, she had twice or thrice, within six months, fresh liquefactions of pre-existing tnbereles attended, of course, with more or less renewal of the constitutional symptoms, during which the expectoration showed the softened opaque tuberculous matter minutely subdivided and suspended in the muco-purulent sputa. With the exception of these changes the cure went steadily on, till recovery took place. The great augmentation of flesh and enlargement of the chest that followed, were particularly noticed by the respectable circles in which she moved, to whom she is in the habit of explaining the improvement that has taken place, by throwing her shoulders upwards and forwards, thus bringing the clavicles greatly in advance of the upper ribs, in imitation of the appearance of the chest in its previous state, that they may judge by contrast. This patient had used the tube for the space of about twelve months, three times a day as directed, and her symptoms had disappeared some months before she left it off.

Hohnbaum, the distinguished German pathologist, who has translated Dr. Ramadge's Work into his native language, strongly recommends this extension of the term of its use for the sake of security. About two years afterwards, at the close of the gay season in London, Dr. Ramadge was again called in to see her. She complained of cough and pain in the lower scapular region, which he attributed to fresh softenings of old tuberculous nodules. Appropriate medicinal treatment, with the use of

and she has not since required any medical advice. The mechanical respiration in this case, has prevented the deposit of fresh tubercles, and altered that peculiar habit which generates it.

Hereldest sister, with whom she had been in the habit of sleeping, a few months previous to her attack exhibited unequivocal signs of consumption: and though having the advantage of the most distinguished advice, experienced no relief till she removed to Hastings. The bracing sen air, and horse-exercise which she here enjoyed, brought about an amelioration, so far as to clock the most distressing ymptoms, and do away with the cough, but she still remained in a very delicate state. The satisfactory result of her sister's treatment induced her mother to draw Dr. Ramadge's attention to her case also. He found her chest very much contracted, the middle of the collar bone's standing out nearly three fourths of an inch in advance of the upper riles, which were, of course, greatly depro sid, particularly those on the right side. Auscultation discovered in the summit of the right lung elear indications that consumption existed in a latent form, attended with an insensible exeavation. For the improvement of her general health, tomes, chiefly quinine, with preparations of iron, were occasionally prescribed, and for the local affection, the artificial respiration was steadily employed. The result was, that under this treatment, she rapidly improved, the chest expanded, her complexion from very pale, became somewhat florid, and the functions of the system, which had been deranged by the constitutional debility, were restored to their normal action. She was subsequently mar-ried to an individual of noble rank, by whom she has bad two children, and her general health has not since been interrupted by any pluhisical ma- \mathbf{n} festutions.

In examining the chests of the remaining members of the family, Dr. Ramadge's attention was directed to that of a younger sister, which was preternaturally full and large, forming a remarksole contrast to the two preceding. Her general appearance was that of robust health, the complexion florid, and her size and growth beyond her years. From the conformation of the chest, he at once suspected that there was some physical impodiment to the respiration, which on inspecting the throat, proved to be the case; the tonsils being so large as almost to meet. This enlargement at times interfered with the voice. There was nothing r markable in the respiration, except that it was puerile. He explained to her family and her father, who was present, the connection between the tonsils and the highly developed cliest, and added, that although he could not by the ear, detect the signs of tuberculous disease yet he had no doubt, the peculiar habit which had given rise to this unusual tonsillary enlargement, had also led to the deposition of tubereles, and that they existed in a scattered form in the lungs. With a view to lessen the susceptibility of mucous irritation in the throat, he suggested the propriety of diminishing the tonsils, by a level applied oceasienally below each ear, to be succeeded at times. by moveable blisters. Sarsaparilla to improve the general habit, and iodide of potassium to promote absorption, were also recommended. This treatment was adopted, and the tonsils were reduced in The young lady was sent to a school at Brighton, where the tonsils became still more diminished, from the sen air; and her eliest, after some time, began to flatten, and other signs of phthisical disease, betrayed them elves. She had ben forewarned to use the tube, to make up by art, for the loss of protection derived from the less ening of the tonsils, but neglected it. She returned t : London for advice. Dr. Ranadge, who was e sled in, pointed out that the reduction of the tousils, coupled with the operation of some exciting couse, had brought on the softening of the tubereles previously suspected, and that the flattening of the chest with the other symptoms, would have been prevented, had his directions relative to the tube been observed. Finding her constitutional symptoms urgent, he advised the abstraction of blood from the upper part of the cliest by lecches, attention to medicinal remedies alleviaup some months at Brighton, to which place she after a short time returned, and finally got quite well, in the identical locality where the disease had first declared itself in a manifest form.

The eldest son of this family had recently returned from a continental tour, undertaken to improve his general health, which was delicate. On examination, no evidence of disease was detected by the ear, but his chest was very much contracted, and his general appearance by no means healthy. He had spent some time among the mountains of Switzerland, where the climbing of ascents was well calculated to excite his lungs to deep inspirations, But the flatness of the thorax, the tuberculous diathesis prevalent in the family, the absence of tonsillary enlargement, disease of the leart, or any other protective, led to the conclusion that his lungs were extremely liable to tuberenlous invasion, if not already tuberculated. He had just obtained a commission in a light regiment and was about to join it, a course which could not fail to be approved of, as the exercise, which includes a great deal of running, would prove highly favourable to the proper expansion of his lungs. service agreed with him remarkably well, he liked it much and was exceedingly active; his chest expanded, and his general health was considerably improved. After some months he married, and about a year sidesequently, the regiment to which he belonged was ordered to hold itself in readiness for foreign service, on the breaking out of the war in Syria. Being the presumptive heir to a peerage, and by the particular desire of the nobleman whose daughter he had married, he retired from the army, very much against his own wish, change from an active to a comparatively inactive life, was followed by an impaired state of his general health, and a cough. Four months from its commencement, he came up to town and had the advice of one of her Majesty's physicians in ordinary, who considered his case decidedly phthisical, and exceedingly serious, and directed him to proceed immediately to Tonbridge, giving him the name of a medical man, under whom he was to place himself. This was in the middle of summer, and in the early part of autumn he was to leave for Nice. He had applied to this physician for advice in the first instance, by the particular request of two noble relatives, but before acting on it, consulted Dr. Ramadge, whose treatment of the other members of the family had proved so successful, and who found, on examination, that the right lung was diseased, and that the difference between the semidiameter of this side of the chest and the other amounted to nearly an inch and a half. The usual symptoms, cough, nocturnal perspirations, &c., were present. Considering that it would be highly improper to send him away in such critical circumstances, from the very place where it might be expected he could procure the best attention, that it would be, in fact, a virtual abandonment of the case, he dissuaded him from his proposed journey, and apartments were in consequence taken for him near the residence of his parents, a short distance from Hyde-Park. Due attention having been now premised for the relief of the constitutional symptoms, he was placed under a course of mechanical respiration, and shortly began to show evident signs of amendment, which ended in recovery, and thus superseded all necessity for leaving town or going abroad. Two winters have clapsed, and he still ujoys immunity from any return of the symptoms,

The above cases are not the less interesting from the circumstance of having occurred in one family, shortly after three of its members had been cut off by consumption; and it is not going beyond my own conviction to say, that but for the use of the mechanical respiration, these, in all probability would have shared the same fate. In none of the eases did the mechanical treatment operate injuriously, and the cures have so far proved themselves permanent, that after the lapse of a considerable time, they all enjoy excellent ordinary health. As a proof of the satisfaction this highly re-pectable family derived from the success of the treatment, Dr. Ramadge has been indebted to their expressions of approval for the confidence

tions. It is not a little remarkable that all its members attacked with consumption who had not adopted this peculiar treatment died, and the remainder-seven in number-who availed themselves of it are now living, and in excellent health. The conjoint features in their history afford at once, negative and positive evidence of the soundness of the principles assumed in the preceding arguments. Some of these details are worthy of remark. In the first case, the pulmonary affection showed itself originally in the right lung, and here we see it retarded, and driven back as it were, by the accidental enlargement of the b-ft tonsil: on the return of this gland to its former size, we find the consumptive indications reappearing, the site of the disease having changed from the right to the left lung.

I may here incidentally remark, that the greatest amount of disease is almost invariably recognisable before and after death in the left lung. I have heard this accounted for by my preceptor, as well as I can recollect, in the following manner, When tuberculous & position first commences, it is generally in the summit of both lungs, but greater in the right than the left, and therefore solution is first discovered in the former. After this, it will often happen that some accidental circumstance interrupts its progress by expanding the pulmonary tissue in the neighbourhood of the disease, and this expansion will be greater where the tuhereulous deposit is more extensive, i, c., on the right side. The more this tissue is expanded, the less susceptibility does it retain of new tubercularization, and hence the disease, if not subdued, as it advances, spreads more on the left side, -makes its first reappearance there, and its most extensive ravages in that lung.

The effect of tonsillary enlargement is also seen in a very marked and unequivocal manuer in the third case, where the chest was prematurely full, and well developed during its presence, but sunk into an opposite state of contraction upon its removal. The whole family indeed, evinced a predisposition to the malady. Tubereles had formed in all their lungs, but in the cases adduced, their liquefaction had been kept back, and controlled partially and temporarily by natural antagordstic causes, and ultimately in a permanent way by art, which stepped in with aid, more certain and decisive than nature. Some eredit was, no doubt, due to the medicinal treatment, both preparatory and accompanying, and this is a part of the question that will be considered in its proper place, but the complete failure of mere medicinal treatment in similar cases, or its very modiffed and unsatisfactory results, argue strongly that the mechanical respirator had to bear the brunt of the action, and may with justice lay claim to the credit of success.

The fourth case exemplifies the absence of necessity for removal from town, either to the country or abroad, under manifest phthisis. The practice of sending patients away from their friends and their country in this disease, appears to me incapable of being defended. The chief argument in its favour would seem to be precedent. The fashion has so long prevailed, that the propriety of it has ceased to be questioned. This deference to precedent should be left to the gentlemen of the long robe; it is not at all applicable to medical practice,-No good could have resulted from the patient's removal in this case. He would have been separated from his friends and relatives at a time, and under circumstances, that most called for their attention and sympathy, also from the opportunities of procuring the lest medical advice, which it may be presumed are much more numerous in this metropolis than abroad. He recovered without removal, and was thus spared the inconvenience and peril to which a long journey would have exposed him. Liquefactions are of constant occurrence; while they are going forward, patients require all the medical skill and care they an have, to watch and control the symptoms as they arise. Travelling by land or sea, places these in most instances, beyond their reach, and when located in the place of their destination, they run the serious risk of falling into the hands of unskilting and preparatory, and the regular employment reposed in him by some of their friends, who have of the artificial requirement. These were followed since applied to him for advice under similar affection of improper medicines,—as for instance,

mercury—cut short the work of decay. These considerations are serious drawbacks to the hypothetical benefits of warm climates. Some of our high medical authorities, however, still sanction this practice by recommending migration to many of their patients. When benefit appears to be derived, and the patient has returned alive, I have always been able to trace the cause to some natural protection, such as a contraction of the trachea, disease of the heart, &c., existing before they left home, or to pulmonary expansion, brought about by accidental catarrh caught in the prosecution of their journey, or when the disease has been incipient, to the deeper and more energetic inspirations, which change of air and increased exercise occasion.

The beneficial effects of this regulated respiration are not confined to the pulmonary organs. cannot point out the collateral advantages better than by quoting Dr. Ramadge's own remarks on the subject. He says in the chapter on treatment, -" It may be advisable to explain in what manuer the simple process of inhalation, while it expands the pulmouary apparatus, at the same time regulates the most important of the visceral functions. The mere expansion of the lungs in the first instance, tends indirectly to remove congestion of the liver and also of the stomach, spleen, panereas, and intestinal canal, all depending on the more free circulation of the blood in the former. The biliary as well as the great salivary secretion, is hereby promoted to a healthy activity, such morbid irritability of the mucous membrane of the stomach as may be present, productive of indiges tion, is removed; the chyliferons absorption belonging to the small intestines so indispensible to life is actively carried on, and the injurious retention of exerementitions matter in the larger intestines is obviated by increased mucous moisture and accelerated peristaltic motion. It were easy, did I deem it essential to point out at length the beneficial effects produced on other secretions, and to explain the mode by which inhalation acts on the kidneys; but sufficient has been stated to enable the medical man to draw his own deductions in these particulars.

It may fall to the lot of the truly practical and indefatigable pathologist, whose text I have here quoted, to find these novel and important views of which he is the author, occasionally misunderstood, misrepresented, or neglected, but he endures such treatment in common with many distinguished individuals, who have enlarged the boundaries of science, by invading the established prejudices and erroncous doctrines of the age. It may also be a source of consolation to him to refleet, as Sir David Brewster felicitously observes, that he who contends for truths which he has himself been permitted to discover, may well sustain the conflict in which presumption and error are destined to fall. The present age may not be a tribunal either sufficiently pure or enlightened to decide the issue, but he can appeal to posterity, and rest with confidence in its sure decree.

DISCIPULUS

SPONTANEOUS LYPULSION OF UTERINE POLYPUS. M. Marchal relates the following ease: -A lady, 48 years of age, the mother of several children, had for three years laboured under uterine hamorrhage, pains in the loins, a sensation of weight in the pelvis, &c. She was treated as for inflammatory congestion of the uterus. One day, when preparing herself for a bath, she felt, while stooping, something become detached and escape through the genital organs. This object, which was a polyjus, presented some resemblance to the heart of a fowl, only it was somewhat more flattened. It consisted of a body and a pedicle; the latter being smooth on one side, but form on the other, evidently from the violence of its expulsion. On making a vertical section of this body, no doubt could be entertained of its being formed entirely by the uterine tissue, being a true prolongation of that organ.

CASE OF THE LATE MR. R. CARLILE.
BY DR. THOMAS WILLIAMS OF ST. THOMAS'S
HOSPITAL.

(For the 'Miliaexi Time: ')

Arantirom the intrinsic interest which attaches in a predical sense to the facts determined by the opportunities afforded at his own desire of examining his body after death, the case of the late Mr. Carlile has excited sufficient publicenriosity to render proper the step of presenting his fri nds and the public with a succinct and authentic statement of the particulars as determined by the inspection of his body, which it was 10y duty to conduct. Nor would the history of his life be complete without an open acknowledgment, on the part of those really desirous to extend, by every legitimate means, the practical usefulness of medical science, of the substantial benefit which a public example like his, is calculated to confer. His anxious, and repeatedly avowed wishes were, that every use should be made of his remains in clueidation and furtherance of science, and in contribution to the availableness and certainties of those resources which medical science can now command, to mitigate, where it fails completely to dispossess of its sting, the severity of human suffering. It would certainly be but a partial execution of these wishes, if the obligation and benefit which the bequest of Mr. Carlile is so eminently fitted to produce, alike to the public and the profession, were circumscribed and forgotten within the walls of the limited abode to which his body has been consigned. It is neither my desire nor my province to appear as the eulogist of his peculiar sentiments on the subjects of science and religion. My desire is to facilitate the execution of wishes which dictated a magnanimous, though eccentric, be-

I have endeavoured with as much accuracy as possible, to collect from the most authentic and trust-worthy sources, all the facts relating to his latter history. But as the post-mortem examination was made and recorded in detail on the register of the hospital, without any information of a certain character in reference to the nature of his illness, its results may be received as quite upinfluenced by the bias with which a previous knowledge of the case sometimes affects and regulates the interpretation which appearances after death may appear to variant.

In general formation, the body was distinguished by all the marks of robustness and strength; the chest was broad and well developed. The features and contour of the face were quite symmetrical. In figure, the head, if viewed in profile, approximated, although not closely, to the form which is characteristic of the crania of the American variety of mankind. The anterior segment gradually receded, the plane of this uniform recession terminating in an elevated vertex or summit which occupied a position posterior to a line drawn transversely over the head, from one parietal prominence to the other. In this particular, with respect to the configuration of the head, different families of the human race, and equally as obvious, individuals of the same nation and same family present very numerous varieties. The vertex or summit of the cranial arch offers as many variations in size as in position. In the Hindoo, the highest point is placed directly over the parietal prominences. This circumstance of the plane of the forchead being uniform, while it gives the character of gradual inclination backwards, leaves capacious room for the development of the anterior segment of the brain.

In the North American Indian, the vertex I use this to denote the apex of the cranial bone wherever placed-is quite over the occipital region; the frontal recession more rapid, the facial angle consequently more acute. In the Peruvian, it coincides with the middle point of the coronal suture. In the Patagonian, it is placed considerably anterior to this suture. In these two instances, the forchead acquires the character of great elevation and expanse, In the crania of the Greeks and the Egyptians, a vertical bias is observed in the lower part of the forehead, from which the line coinciding with the summit proceeds with semicircular uniformity, as far as the point of the occipital prominence This figure always produces the idea of high intellectual development. The prognathous formation of the Ethiopian skull caves necessarily the vertex at a considerably posterior situation. The position of the vertex las always appeared to me to influence considerably the intellectuality of the expression which belongs to the head. Varieties equally marked in the form of the head are constantly observed in individuals without any demonstrable co-existence of variations in the endowments of the mind. While in mere configuration, therefore, the head of Mr. Carlile did not attain the standard of perfection which modern taste has assigned for the determination of the highest mental excellence, it may be proved by example, that the form of his head was compatible with the possession of great intellectual powers. While, however, the facial angle was somewhat below the average of European standard, the line carried from one temporal ridge to the opposite, exceeded in length, that which common observation recognises as the average. In volume, therefore, the forehead gained, transversely, the development which it failed to attain vertically. Imagining a line dividing vertically and transversely the cranium, the posterior presented a greater comparative volume than the anterior segment. The circular admeasurement of the head, as formed by a line carried horizontally over the superciliary ridges, and bounding the occiput at the level of the tuberosity, gave 231 inches. The vertical, as obtained by a line carried from the tragus of one car to that of the opposite, afforded 131 inches. The former somewhat exceeded the mean admeasurement of the European head, while the latter was not more than equal to the standard. Some of these facts were furnished me by my friend, Mr. Dixon. The countenance acquired breadth and squareness from the prominence of the cheek. The general expression of the countenance conveyed strikingly the idea of resolution and firmness; but withal the expression was placid.

The brain, including the ccrebellum, pons varolii, and a portion of the medulla, amounted in weight to 3lbs. $6\bar{5}$ 25.—The ccrebellum separated from the pons varolii weighed $5\bar{5}$. $5\bar{5}$.—In proportional value, these weights are in the ratio of 1 to $9\frac{1}{2}$.

This proves a somewhat greater relative development of cerebrum than ordinary; the average, I believe, is as one to about eight in the weight of the cerebrum and cerebellum. The membranes of the brain were healthy: the grey matter, or hemispherical ganglion was healthy in structure and colour; but in the opinion of Mr. Solly, the grey matter did not exceed the average depth. No other morbid condition could be found in the brain than that of a minute apoplectic cavity in the substance of the tuberannulore. This was situated on the right of the median line, and superior and posterior to the transverse median plane of the pous. It contained a small quantity of reddish

pus-like substance, appearing like disentegrated cerebral matter. The capacity of this little cell did not exceed the dimensions of a small pea. The structure immediately adjacent indicated only slight marks of softening. The existence of an adventitious membrane or cystto this cavity, could not be decidedly proved. It is the most probable supposition in regard to its formation, that it was produced by a small apoplectic clot, subsequently disappearing under the agency of absorption, more or less augmented, in proportion, by the softening and disintegration of the adjacent structure,

From the situation of the eavity with reference to the columns traversing the pons, it was obvious that the continuity of the posterior pyramid or sentient portion of the crus cerebri of the right side, was chiefly broken down. Since the cavity existed on the right of the median plane of the pons, and above the decussation of the columns, the paralysis must have affeeted the left side of the body, and probably, sensation, to a greater extent than motion. The aorta, with the roots of the large vessels attached, weighed 13! oz. The normal weight of the organ in the adult is given by physiologists at about 9 oz. In general volume, also, the heart had augmented. The cavities of the two ventrieles had somewhat enlarged, the left more obviously than the right. The ventricular parietes on the left side were slightly hypertrophied. The mitral and tricuspid valves were quite healthy: the aorta likewise, with the exception of a little deposit, and thickening around the attached borders of one of the curtains. A slight dilatation appeared in the ascending portion of the aortic arch; frequent atheromatous patches were observed underneath the lining membrane. Here, deposits were found also in the coats of the iliac vessels. The heart was covered with a considerable quantity of fat, a circumstance which should not be overlooked in estimating its augmented weight and volume, as evidences of a pathological state.

No satisfactory evidences of disease could be detected in the lungs: the right was universally adherent to the costal pleura: the adhesions were obviously of old formation. base of the lungs was attached in the same way to the diaphragm. The pareneliyma of the lungs, immediately subjacent to the pleura, presented no decided proofs of having been involved in the uciglibouring inflammation. The lining membrane of the bronchial tubes on this side, was congested to a slight degree: a little dilatation of the smaller channels likewise, in some places, in others, thickenings of the lining membrane were observed. smaller divisions of the bronchi contained the product of bronchitis: this, however, was small in quantity. No proofs could be disco vered of the existence of pneumonic consolidation, although it was reported that he died of inflammation of the lungs. Notwithstanding the congested state, it was very different from that form of congestion which belongs to the first stage of pneumonia. Some impediment was offered to the escape of air from the air vessels, for the collapse of the lung was less complete than that which is observed to occur under the conditions of health. On the left side no pleural adhesions existed. In structure this lung was healthy; but the bronchial tubes presented nearly the same appearance as those on the right. All the organs of the abdomen were found in a perfectly healthy state. As formerly stated, the facts thus determined by the examination of the body, at is between the condition which the inspection of the body has enabled us to discover, and the signs by which those conditions were rendered manifest in the living state. I can hold myself responsible for the correctness of the following facts, in relation to the history of his health for the last eight or nine years. Care has been taken to gather them from the most authentic sources, his own immediate friends.

For a period of nearly ten years before his death, the late Mr. Carlile lahoured under a peculiar form of asthma: it was marked particularly by attacks or paroxysms of more or less extreme difficulty of breathing. During these attacks, the more prominent sensations were those of great pressure and tightness across the chest. These paroxysms did not terminate in copious expectoration, as in the humid form of asthmatic affections. His diffi culty of breathing suffered almost immediate and excessive aggravation, even by a stay of a few days duration, at his residence in Fleetstreet, so that for some years lie was compelled to return to the country for his nightly rest. Breathing thus, for a portion only of the four-and-twenty hours, the less salubrious atmosphere of his town residence, he succeeded in alleviating, to a great extent, the continued oppression and distress of breathing which his complaint would otherwise have inevitably produced. His habits were temperate and regular: he never referred any uneasiness to the region of the heart; he was not subject to palpitation or faintings. While breathing the country air, he felt almost entirely free from all restraint of breathing. During the paroxysms which came on in the city, his exertions for breath frequently became distressing, and his countenance was thrown into the livid anxious condition which so peculiarly belongs to the paroxysm of asthmatic oppression.

In the year 1841 he became the subject of a singular attack of paralysis. One evening, after rather severe exertion in walking, he found that the power and sensibility of the left side of the body were being gradually lost, or, as he expressed it to one of his family at the time, "all the life of the left side of his body appeared to be flowing in the most strange: way, to the *right*." In a short time the paralysis was complete. It is important and interesting to recollect that during the whole progress and development of the paralytic seizure, his mind stood undisturbed, a conscious witness to the approach of that mysterious and singular change, by which the extremest commands of volition, the proud mandates of the mind, were long dispossessed of the power to excite respondent agency in the formerly obedient hand. He conversed freely and as intelligently as ever with his attendants. After the lanse of some time, he recovered to a great extent, the power of voluntary motion and sensation; the loss of sensibility was more complete in the face than the remaining parts of the affected side. The return of sensation on the left side of the face was slower and less complete than in other parts. He died in one of his usual asthmatic attacks, at his house in Fleet-street. This fatal attack came on suddealy, and too rapidly to render it safe or practicable to remove him to his country residence. It is believed that if his removal to the country had been earlier and promptly made, he would have survived, with his usual impunity, the effects of his last illness. In the history of the paralysis with which the late Mr. Carlile was affected, in their physiological references, there are several points of no unin-

stated by the most practical authorities, that death is the inevitable consequence of such According to the statistical extravasation. records of Andral, out of 392 cases of cerebral harmorrhage, nine only of effusion into the pons varolii were found. The original attack in the case of Mr. Carlile was accompanied by no convuisions, no extinction of mental consciousness, no stertor. The question may be raised: could the physiologist have predicted the situation in the brain at which the rupture and extravasation had occurred? Are the eases of apoplectic effusion into the pons always characterised and distinguishable by an absence of stertor and coma? The converse of this is generally held to be true; but as a general fact it is certain, that under all circumstances of extravasation within the limits of the eranial cavity, whatever the situation in which it occurs, the phenomena are dependent upon, and are referable to, the pressure which the general mass of the brain sustains. The pressure may oppress almost equally any part of the organ, and may be explained and understood on the principle of hydrostatic diffusion in the case of Mr. Carlile. It may, therefore, correctly be argued, that the undisturbed presence of consciousness was due only to the minuteness of the vessel ruptured, and therefore, of the quantity of blood effused. It is quite easy to understand, from the immediate proximity of the spinal centre, in cases of effusion in the neighbourhood of the base of thebrain, that under the condition of any serious and bulky extravasation, the cord-will suffer, and convulsions, dysphagia, and other spinal phenomena, will strongly mark the approach of death. It is, therefore, the limited extent rather than the seat of effusion which explains the peculiarities of Mr. Carlile's case, and which enable us to account for the comparative impunity with which he survived the attack. The slight softening of structure adjacent to the eyst in this case, is calculated, likewise, to suggest some few reflections of interest. In all cases of cerebral humorrhage, from the closed box-like limits of the cranium, it is obvious that the pressure of a clot must operate equally in every direction, and, that, consequently, it must compress every part of the enclosed mass, with as much severity, as the portions in the immediate neighbourhood of the extravasation, and yet the disintegratory process affects only the parts in direct contact with the clot. It is, thus, that the total volume of the mass is diminished, and the aggregate brain allowed to recover its normal density. In the case of Mr. Carlile, as already remarked, the cyst, and formerly the clot, was situated in the sentient segment of the pons, in the substance of the posterior pyramid, and at the distance of about an inch and a half from the locality to which the sentient root of the trigeminus has been anatomically followed. If induction from physiological facts: be allowed, it is not improbable that the slowness with which the restoration of sensation occurred in the face, comparatively with the period of its return in other parts, was dependent upon the extent to which the point of origin of the fifth nerve was involved in the pressure. In a case of this description, if the clot had extended in its bulk and influence, beyond the median line of the pons, the singular pathological experiment would have been performed, by which a complete separation would have been accomplished between the sentient apparatus of the cerebrum, and that of the cerebel-Even under the partial isolation of the cerebellum, which happened in the case of Mr. Carlile, a competent physiologist, if confident in the accuracy of his diagnosis, might have elicited facts of no inferior value and interest to the physician. This case proves the fact which has been denied

abdomen were found in a perfectly healthy state. As formerly stated, the facts thus determined by the examination of the body, at a period of four days after death, were recorded without any previous knowledge of the case. It is a rare occurrence to discover a spontaneous extravasation into the substance of the pons varioh; and it has been denied by the lighest authority, that an apoplectic elocation of four days after death, were recorded without any previous knowledge of the case. It is a rare occurrence to discover a spontaneous extravasation into the substance of the pons varioh; and it has been denied by the lighest authority, that an apoplectic elocation of the pons without ontailing the immediate consequence of death, but without the manifestation of a single formidable sign. In conclusion, it is by no means desirable to withhold the re-

mark, that in contemplating the instructive facts which this imperfect analysis of Mr. Carlite's case has developed, it must be a source of compensating gratification to those whose feelings and affections his stern and philosophical bequest was most likely to violate and appal, to find, apart from the advantages which may occur to medical science from an example, thus magnanimously shewn, of indifference to the over-wrought delicacy of popufar taste, that his own individual case should have accomplished watching, and should have added an | interesting store to the treasury of useful knowledge.

HUNTERIAN ORATION.

Delivered at the Royal College of Surgeout, Feb. 11 By J. M. ARNOTT, Esq. &c.

In the same class of medical improvers as Bell, we may also rank one whose loss was recently felt, not only in the nation where it occurred, but by all Europe which he had instructed,-Larrey.

Larrey was born in 1766; became a pupil of his uncle, who practised surgery at Toulouse, and, after seven years' professional education, was appointed surgeon in the navy. He returned to Paris at the outbreak of the revolution, and, in 1793, was sent as regimental surgeon to the army of the Rhine. If we would have a specimen of the extraordinary energy and indignant resistance with which France then stayed the attack of the first coalition, we may look to Larrey, the most zealons individual of the important class to which he belonged. He invented the ambulances voluntes, and was the first military surgeon who, having dressed the wounded, carried them off from under the very fire of the batteries, "It is to Larrey," says one of his panegyrists, "that we owe our place of honour on the field of battle." zeal could not fail to win applause; and Larrey obtained special mention in the report of Genli de Beauharnais after a battle fought before Mayence in July 1793,

At the siege of Toulon, in 1791, he gained the friendship of that Lientenant of Artillery who was destined to shake the world! accompanied the French army to Egypt, and served in all the subsequent campaigns of Na poleon throughout Europe. It is needless to detail the honours successively conferred upon Larrey until his social position became equal to his merits; but I may mention that, after the battle of Wagram, he was made Baron of the Empire, and that in 1812 he was made Chirurgien en Chef of the Grande Armie. He liked to be called by the title of nobility which he had earned: nor was this a childish vanity; for he knew that neither the chance of birth, nor the favour of a court, had made him a Baron; but that the dignity had been bestowed by a discriminating hand which never conferred honours upon incompetency or inefficiency.

His arduous duties did not prevent him from recording a host of facts selected from the myriads presented to his observation. Among the works with which he enriched surgical literature, some of the best are :- A Memoir on Amputation of the Extremities after Gun-shot Wounds-A Historical and Surgical Account of the Expedition of the French Army to Egypt and Syria .- Memoirs of Military Surgery: an elaborate work in four volumes

Among the valuable principles which he established was the necessity of immediate amputation after gun-shot wounds, pointing out. with nice discrimination, in what cases the operation was indicated. The proprlety of immediate amputation had been advocated at infervals for two centuries; but the large es t

perience and strong sagacity of Larrey first raised it into a canon of military surgery.

Previously to his time, it had been a maxim of practice, when the extremities were invaded by spreading mortification, never to amputate till nature had fixed a line of demarcation between the sound and gangrenous parts. He first shewed that the rule, though general, ought not to be universal; and he drew attention to the important distinction between gangrene dependent on a constitutional cause, and that which springs from the severity of a local injury. In the latter he advised immediate amputation, without waiting for the establishment of a boundary between the dead and living parts; and the instances which he gave of the successful application of this new distinction, have been amply confirmed by the experience of others.

Fortunately for mankind, the clearest intellect is commonly accompanied by a benevolent heart, and the perspicacity of Larrey was

equalled by his humanity.

Of all Napoleon's campaigns, that of 1813 was the most equally, the most severely, the most fiercely contested. It was then that Prussia, rising almost to a man, displayed a spirit at least equal to that of France in 1793; and in the combats which ensued, the effects of science and art in war were heightened by the heroic, it may be rancorous, feelings of those engaged.

After the battles of Bautzen and Wurchen, it was suggested to Napoleon that the number of the wounded had been increased by voluntary mutilation; and that all who had lost a finger, or whose hand had been pierced by a ball, were traitors who wished to escape from the service.

Napoleon ordered that the wounded of this class, to the number of 1,200, should be separated from the rest; and that a commission, consisting of several principal surgeons, should examine each of these soldiers. A council of war, moreover, was appointed to try the guilty, and cause them to be executed on the spot. Larrey had been named president of the surgical board. The day before it met, a certain personage, who, believing the accusation, desired its success, ordered him to find four culprits in each division, who should be taken before a council of war, and shot instantly Larrey, filled with terror and indignation at such an order, was about to send in his resignation, and quit the army, when a friend made him give up the project by observing that he might be useful to these unfortunate men.

Larrey did not hesitate one moment. examination was extremely rigorous, and lasted four whole days. Larrey shewed, by reasoning on the character of the wounds, that all the accused were innocent. He then addressed a report to Napoleon; and, believing that he had displeased the emperor in this affair, composedly awaited the disfavour which was to follow. But Napoleon was not insensible to the claims of truth and justice when clearly demonstrated and resolutely maintained. conduct of Larrey was not lost upon him. the middle of the ensning night, Baron Fain brought Larrey a most flattering letter from the Emperor, in which he was congratulated on his firm, honourable, and humane conduct. This letter was accompanied by a present of 6,000 francs, and the warrant of a pension of 3,000 to be paid from Napoleon's privy purse. -In his long exile Napoleon did not forget his greatsurgeon: besides bequeathing him 100,000 francs, his will records the honourable fact, that Larrey was the most virtuous man he had ever known.-His own escutcheon might have been saved from its darkest blot, had he always encountered the maral fearles-ness of Larroy and how cagorly be seized every opportunity ally of Desgonostes.

But I must now approach the great object which has to day brought us together, and endeavour briefly to describe the peculiar and more prominent points of Hunter's career.

John Hunter was born in 1728, and began the study of his profession at the age of 20. He died in 1793, leaving a reputation as a surgeon and a naturalist beyond that of any other man in the annals of fame. Some few may have been his equal, nay, his superiors, (though that is a bold word) in either department singly; for excellence in both combined,

he stands without a rival.

He was snatched away too soon from the pofession which he adorned; and if we number his years alone, his death may appear premature; but if we adopt the theory of the Roman philosophical poet, and measure time by what has been performed in it, we might suppose that Hunter had lived an age. a century has now clapsed since his death, and few of his contemporaries are with us; the voices of envy and of partiality are alike silent in the tomb, and we are called on to estimate what Hunter attempted, intended, accomplished.

The materials for our judgment are to be found in his books, both printed and manuscript, as well as his numerous drawings. But it is most of all in his museum that we appreciate the prodigious extent of his views, bounded only, if that can be called a boundary, by the

limits of animated nature.

John Hunter early shewed the characteristic features of his mind, the interest he took in physiological inquiries, his capabilities of minute anatomical investigation, and his powers as an original thinker. Within ten years of his arrival in London, he had solved the problem as to the cause and mode of the descent of the testis in the feetus, had closely examined the connection between the uterus and placenta. had made that preparation, the oldest in the museum, where, tracing the branches of the fifth pair of nerves in the nose, he was led to the conclusion that the organs of sense receive their endowments of ordinary sensation from that nerve, and to the more general proposition, "that if we consider how various are the origins of the nerves, and how different the circumstances attending them, we must suppose a variety of uses to arise out of every peculiarity of structure;" thereby approaching more closely than any one clse had done to the principle subsequently established by Sir C. Bell: and, moreover, he had instituted a very ngenious set of experiments, with the view of determining whether the veins possess the power of absorption.

When, soon after, he accompanied the army to the coast of France and the Peninsula, bis duties as Staff-Surgeon did not prevent him pursuing those physiological inquities in which he took so much delight. He was then engaged in determining, by experiment, whether digestion continues in lizards and snakes during their torpid state; and he made other experiments on the faculty of hearing in fishes, the organ of which sense he had discovered in these animals before leaving London. At this period, too, were made those observations on gun-shot wounds, with which seems to have originated that inquiry which, in its published form only, appeared 30 years afterwards. And in an incidental remark in his paper on the vesiculæ seminales, "that he took the opportunity of opening a man immediately after he had been killed by a cannon-ball, to be more certain of the nature of their contents," we perceive how strong was his physiological zeal,

of adding to his knowledge.

There is reason to suppose that when he returned to London in 1763, the scheme of his future life and operations had been already formed. The College possesses a manuscript catalogue in his own hand writing, apparently written a few months after his return from Portugal, briefly defining the nature of about 200 specimens of natural and morbid structure, grouped together according to organs-the germ of that museum in which he sought to display all the types and modifications of animal

The great object of Mr. Hunter in the formation of his museum was the illustration of life, in its natural and diseased condition, in plants as well as in animals. Physiology, in its largest sense, was the aim and scope of his labours; whether we view him investigating the properties of the seed or of the egg, where life lies sleeping; displaying every form and variety of organization; tracing its developments; observing its aberrations; deducing the laws of life; or applying his knowledge of these laws to the explanation of the phenomena of disease, to the prolongation of the existence, or to the relief of the sufferings of his fellowcreatures.

Of the vast basis on which Mr. Hunter raised his superstructure, and of the soundness of the materials of which it is composed, his museum is the best evidence. At the period of his death, and he was adding to it with unabated zeal up to the last day of his existence, the number of preparations of natural structure alone amounted to nearly 4,000.

It is impossible to form a just conception of the beauty and value of these preparations without a detailed examination of the museum it elf, and of the excellent catalogues which have now been drawn up. But you may form some idea of the industry and vast labour expended in its formation, when I state to you, on the authority of one who has had the best means of knowing, Mr. Owen, that there is proof of Hunter having dissected above 500 species of animals, exclusive of repeated dissections of different individuals of the same species, besides those of plants to a considerable amount. And of his diligence in recording the details of his observations, that at the same period he possessed original records of the dissections of 315 different species of animals.

Not contented with displaying the peculiarities of their structure, and recording them, Hunter caused most elaborate and accurate drawings to be made from recent dissections of many animals, and for this purpose retained in his family, many years, an accomplished dranghtsman.

(To be continued.)

PERISCOPE OF THE WEEK.

ANCHYLOSIS .- M. Malgaigne speaking of recent anchylosis resulting from various affections of the joints, or from prolonged absolute quietude of a limb, directs especial attention on not require any specific treatment, and that the y will be removed in the course of time showing the strong spasmodic contraction of the form without medical assistance. This he combats very strongly, as also the advice not to attempt passive motion of a limb as long as there continues any pain in the joint. He illustrates both his positions by cases, some of which serve to demonstrate that time alone cannot cure a commencing anchylosis, but tends the rather to increase the mischief, while the others show that the forcible flexion of a limb, even while space the mischief, while the others show that the forcible flexion of a limb, even while space of pain in the joint (outlings, provided all the inflationality symptoms hive been dissipated, is far from being as injurious.

as has been represented, but, on the contrary. has led to a cure by the rupture of the anchylosis. This forcible movement is attended with considerable pain at the time, but its beneficial effects soon become evident. M. Malgaigne does not restrict the application of passive motion to a limb labouring under commencing anchylosis from inflammation of the joint, or from a too protracted state of rest of the part affected, consequent on fracture or luxation, but equally applies it to the same diseases when subsequent to white swelling, provided always that the increase of sensibility of the part has ceased. The persistence of the swelling lis not with him a sufficient reason for not having recourse to forcible extension and flexion, to lowing ease will show that even where there is a degree of deformity of the articulation sufficient to give rise to the fear that more or less erosion of the articulating surfaces has taken place, still something may be done for the unfortunate patient. A person was brought to M. Malgaigne, who had been obliged to keep his arm in a state of perfect rest for white swelling of the shoulder. All pain had then ceased, and he could perform some slight movements of the limb, but the deltoid muscle was completely paralysed, and half the head of the humerus had been destroyed, so that none of the movements of the limb were effected properly. Notwithstanding, by steady and well regulated passive motion, gradually increased in power and extent, the patient so far recovered the nes of his limb that he can perform the most difficult gymnastic exercises.

NATIONAL STRANGULATION IN BIRTH.—Dr. Henderson, of Edinburgh, publishes a case where a healthy woman of 30, gave birth to a full-grown child, after a labour of fourteen hours, accompanied with circumstances of extreme interest in a medico legal point of view. The pains were neither frequent nor severe; the os uteri was thick and dilated Latterly, the head becoming impacted in the outlet of the pelvis (which was rather narrow anteriorly), required to be re-lieved with the forceps. When the head was lieved with the foreeps. born, the child breathed twice, and cried once distinctly, though feebly; during the next three or four pains no progress was gained although forcible traction was made; indeed, each pain, instead of furthering the labour, rather drew back the head, the face becoming rapidly black and tumid. On inserting the finger, the thickened os uteri was found grasping the throat tightly as a ligature, and arresting the flow of blood in the ingular veins few more pains served to extricate the child, which was quite dead, strangled by the spasmodic contraction of the os uteri around the neck, after the birth of the head. There were two distinct black rings, one at the top, the other at the root, of the neck, corresponding exactly with the parts which the os uteri had successsively grasped and rested on. The right shoulder, from the apex to the lower ring on the neck, was ecchymosed. The left

the ioduret of potassium, the bichloruret of platina, the dento chlororet of gold, and some metallie chlorurets. Heated to 400 deg, it melts into a brownish liquid, which solidifies like a resin on cooling. The formula of its composition is expressed by C46, II, A21, O3, or carbon 69.80; hydrogen, 6.83; nitrogen, 7.19; oxygen, 16.21.

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The evertificates are token from a paper furne helby me in 1837, and putth had at the "Aran-actions of the Reval Medico-Robanical Spricty," Vol. 1, Part 4, p. 181.)

Shorty, vol. 1, Patt 6, p. (81.)

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ON THE LAWS OF THE DEVELOPMENT OF ORGANS: OR, TRANSCENDENTAL ANATOMY APPLIED TO PHYSIOLOGY.

By E. R. A. SEBRYS, Member of the Institute of the Academy of Medicine, Protess of terms the counsel Natural History, Pares, No. No. No.

SUMMARY .- Double state presented by organs in the course of their formation-Principle of determination in comparative anatomy-Determination of organisms by ferm, by function-Insufficiency of these two principles in the determination of the organs of the life of relation-New direction given to this study by Geoffron Saint Hilaire-Principle of connections and of balancement in organisms.

We thus see that in the course of their formation, the organs present two different states; that which corresponds to their transitory form; and that at which they are defaultively arrested, and which constitutes their normal state in different classes The transitory forms of an organ are so much more numerous, and its changes of form so much more multiplied as its composition is more complex, a form of greater complication being always preceded by one of greater simplicity, wherein the various parts of the same organ become alternately balanced in their dimensions, until arrested at their definitive composition. In the system of organic pre-existences, the primitive form was presumed invariable; an organ was of necessity at its origin that which it was bound to remain: the heart, the brain, the stomach of a mammiferous animal, of a bird, a reptile, or of man himself, appeared at first sight to possess the same complication as in the adult being. Hence was there no attempt at establishing a resemblance between these organs, no analogy beyond the analogies and differences preseated by adult animals. Now, as in the adult state the analogies are efficed, while the differences become more striking than at any other period of exitence, it resulted that the organic differences became the object of the researches of anatomists. and, so to speak, the principal rule of comparative anatomy. But in proportion as researches multiplied, these organic differences diminished; those imperceived analogies presented by the organs in the course of their metamorphices from family to family, or from class to class, became more and more developed, till finally that mass of organic analogies was accumulated of which the anatomy of while beings had not even induced a suspicion Organs, which in the animal of full development appeared exceedingly complicated, were found to be progressively simplified, in proportion as they were traced towards their original conformation in the young forms. This first observation was followed by a second still more important. Comparative anatomy had already unfolded the gradual decomposition of organs in the series of organised beings; the heart, so complicated in man, the mammifera and birds, was found in reptiles and fishes, to constitute a simple contractile trainated; in the mollused the place of this organ variations in this latter class. Still it was impressible the found, at first view, which have a resemblance was seen to be supplied by a simple swelling of the bis not to perceive the organic analogy, whether on in this cl. cittler with the brain of the mannsac, in which the venous and arterial circulations

equal containing the blood, while in in-sects, a single ves .1 (the dorsal) was found assimilated to this organ. The difference between this dorsal vessel, the sac of the mollusca, and the complicated heart of the mammifers and man, was so great and remarkable, that the only common point between there was that of function, or use, namely, to aceclerate the movement; of the venous and arterial liquid; thus was function the only character which calld then lead auatomists to confound under the same denomination, organs so different in their structure, in their form, and sometimes even in their position, as in the mollusen and in insects. Finally, by considering this organ in a general manner throughout all beings, its anatomy was found to become more complex from the inferior to the superior animals, until arrived at the highest degree of its composition. Now, by tracing it toward its early conditions, transcendental anatomy has shown that the self-same organ, however complicated it may be in its permanent forms, repeats in its transitory conditions the organic simplicity of the inferior classes. Thus the heart in birds is primitively a canal, then a sac or simple cavity, and lastly the complex organ of this class. Comparative anatomy is thus repeated and reproduced by embryogeny; and embryogeny, hitherto neglected because it presented to the mind but sterile result, now offered a degree of interest in pursuit, which threatened to exhaust all the energies of there who had the courage and patience to give there who had the contage and panence to give themselves up to these difficult and minute rescarches

If it be true that the organs of the embryos of the superior classes repeat and reproduce the perso nt erganic the of the inferiors

bryogeny having been neglected, and why this pieters disassociates. It is given neglect had not extended itself to comparative anatomy. We may in this place consider the principles according to which comparative anatomy unde its first advances. On the one hand the anatomy of the adult man being the only known species, the only one which could serve for the purpose of comparison, and the organic dissimilitudes of animal; reproducing themselves from class to class, these latter were of necessity in the first place pointed out and seized upon; they constituted as it were the prominent points of com-parative anatomy. Thus the kidney of man is single on either side; that of many mammifera, of birds and reptiles, is multiple. Comparative anatomy pointed out this unity on the one hand and this state of multiplicity on the other, without considering whether there was not a period in the life of man when this organ resembled that of these animals. It ascertained the facts, but did not explain them.

But the differences became multiplied to such a point; the forms, in consequence of their great variety, became so widely separated from those which served as their type, that, without some other rallying point, anatomy would infallibly have lost the thread which directed it. This new guide was function. By this aid the apparatus, by means of which an individual function is executed, were traced and compared one with another, so that organs, apparently the most heterogeneous, were thus reduced to their organic analogy. The liver, for instance, differs so ereatly in the monkey tribe (some excepted), the mammifera and man, that for a long time this difference was made a point of objection against the doctrine of Galen, and his disciples. In birds, a class so remarkable for the fixity of their organisation, the liver (single in the mammifera) is double, of a symmetrical form, and placed upon either side of the intestinal canal; in reptiles and fi hes it resembles more that

account of the connection of the liver with the digestive canal, or inasmuch as the determination was merely based upon the organ en ma . But true difficulties presented themselves in the invertebrata; and a suredly it form alone, or even form aided by the relations of position, had been the only guide to determination, no analogy could ever have been discovered between the secretory apparatus of the bile in the hepatic corea of the erustacca, and in the thin and spongy vessels of in-sects; the yellow colour of the former, as also, most frequently, of the latter, and the constantly lutter taste of the liquids which they contain, have alone established the relation of these parts with the biliary organs of the upper classes. Function, in this case, takes the place of form. The same may be said of respiration, which is sometimes performed by means of lungs, ometimes by branchia or gills, and at others by trachese. So also with respect to the heart and the vessels, which have in many cases been recognised by the presence of the blood

Results so striking restored to function all its former importance: unity of function, diversity of organs to produce it, such was the base of anatomical determination. Although this method was followed with such great success in the comparison of the apparatus of the life of nutrition, it was far different with respect to those of the life of relation. Here, in fact, all the elements of incertitude and the chances of faiture were combined to render research unsuccessful. Sometimes the function being completely nuknown, this rule of determination could no longer be applied; at other times the function was known or presumed, but the organic open in were referred to the depends of the clements philic agend to as experience were

words that the form wither led a tray than directed in the pursuit. Thus function and form, whether considered apart or united, which in their application to the apparatus of organic life had been so fertile in results, threw but a doubtful or unsteady light upon the apparatus of relation.

The prejudices of paganism interdicting the dissection of the human body, the anatomy of man was primitively deduced entirely from that of animals. But in the sixteenth century, science taking an entirely opposite direction, the dissection of man became pursued, and the anatomy of animals was in its turn deduced from that of man. Consequently, anatomists sought at first those resemblances in the brains of animals, which were perfectly known to them in that of man. The e resemblances were soon found in the mammifera, for in them the brain is, in great proportion, a repetition of itself in the various families of which this class is composed. In them it was found similar to what it is in man, and received the same denominations. But in birds this resemblance no longer existed. The cerebellum posteriorly, and the cerebral lobes in front were recognised without difficulty; but in the middle part a pair of new lobes was discovered, which had no analogy either in man or the manunifera. Thus were mistaken idens engendered and extended even to the surrounding parts: the whole middle region of the brain in this class appeared new, and as seignee possessed no fixed terms of relation, a wide field of conjecture was opened to anatomists. chain of resemblances appeared from that point broken; and on coming to the class of fishes, it seemed impossible to renew it by region of the many circumstances which we will now explain.

The consideration of form, which had so me cessfully guided anatomists in the study of the mannufers, which led also enabled them to recornise the cerebral lobes and the hemi pheres in hird , lost all application in fishes. Nothing could

mifera or of birds. This organ is composed, in fishes, of a double series of bulbs ranged in lines from before backwards, and varying in number from two to four or six. Which of these pairs should be named cerebral hemispheres? The anterior, the middle, or the posterior? To what part of the upper classes are the other lobes to be compared? On what bases are their analogies or differences to be grounded? No fixed data are as-certained on these points. All is individual opinion and conjecture. The same lobes lave re-ceived different names, and have been by turns compared to parts altogether dissimilar. The cerebellum itself, which it is so difficult to mistake in the other classes, was also, in fishes, a subject of incertitude. Sometimes this organ is single, as in the bony class of fishes; at other times, as in some cartilaginous fish, it is a double organ composed of symmetrical layers rolled up together and placed along the parietes of the fourth ventri-In a very great number, an especial body is found detached from the posterior lobes, rendering the organ still more complex. This body, which sometimes resembles the uvula in man, and at other times the epiglottis, is placed, like a cover, over the fourth ventricle. Most frequently, it is simple; at other times, as in the skate, it is double. How, in the midst of all these transformations, are we to recognise the cerebellum?

The base of the brain in fishes is scarcely less variable than its upper surface. What is especially deserving of notice at the under surface, is the appearance of two rounded tubercles, which, in their situation and form, bear some resemblance to the manifoldary confidences in man; this analogy has been pointed out by various writers, who have not failed to express their astonishment, that these mammillary eminences, which are the most elevated character of animality, should be found in fishes, which appear so low in the animal scale! These eminences, which exist only in man, which have disappeared in the monkey tribe, in the mammifera, and in birds, are suddenly reproduced in tishes; an evident proof that their brain belongs to a very cloyated degree of organization. Consequently, their posterior lobes feave been assimilated to the cerebral homispheres. In these lobes are found the optic thalamus, the corpus striatum, the pess hippocamph, the forms and the corpus callosum. Considering, therefore, that some of these organs have disappeared in birds and reptiles, the pre-eminence of fishes over these two classes was considered to be established,

Lask, then, bow, with conclusions so opposed to the anatomical and zoological relations of vertebrated animals, could the comparative anatomy of the brain be rightly appreciated? The confusion resulting from all these false relations and dissimilitudes was still further increased by the extreme variation of the brain in fishes. In the mammifers all the parts of the brain are almost a repetition the one of the other. In birds, this organ is more fixed than in the mannaifera. Reptiles present some differences; but these differences, altogether unimportant, produce no alteration in the fundamental characters of the organ. converse of this, however, takes place in fishes: the elements of the brain are with them in a perpetual oscillation. In the first place, the brain of cartilaginous fishes is not the same as that of the bony fishes. The general forms heing changed from one series to another, that the principal parts, such as the cerebrum and cerebellum, become quite incapable of reconition. In the second place, this organ varies not only from one family to another, but it present the greatest differences in the various genera and even in mighbouring species. It was thus impossible that · ience, without some powerful guiding principle. could progress upon so difficult and uncertain a familiation.

Such had been the results obtained by the principle of form unguided by function in the determination of the various parts of the brain in ver-Strated unimals. The spinol marrow could, however, not be mistaken. Encased in a canol formed by the contiguity of the vertebrie, its deternounti in was derived from its position, in the same way that the determination of the brain. co. masse, of derived from its one beare within the oscerus.

or eartilaginous box of the cranium. The containing body served, so to speak, to distinguish the contained. But this containing medium suddenly disappearing in the invertebrata, the central nervous system became, as it were, abandoned to it-Thus, some referred to the great sympathetic, the whole nervous system of the invertebrata, forgetting that, from the time of Rufus of Ephesus and Galen, this nerve has unanimously been devoted to the untritive functions alone. Others (and this is still the opinion of many anatennists) not being able to explain the invere-brata from the structure of the vertebrata, have followed a totally opposite coarse. They con-idered the double chain of eguglia in the articalata as analogous to the spinal marrow of the vertebrata, which they supposed to be similarly enlarged at each vertebral segment. But direct observation soon destroyed this hypothesis, and left all in doubt. On comparing this state of uncertainty in reference to the fundamental system of the apparatus of relation with the so successful exposition of the apparatus of nutrition, one cannot help enquiring why the laws, which were so successful in their application on the one side, should prove so inefficacions on the other. The cause must be that the method which is applicable to the one, is unsuited to the other order of appa-

Having now shown the imperfection of these laws in reference to an entire system of the organization.—the nervous system, I shall proceed to demonstrate their inefficacy in some circumscribed apparatus as those of the senses, choosing smell and taste, which are intermediate to the functions of nutrition and relation, and the hearing, which belongs exclusively to the relative functions. In the example which we have been considering, the observity of the function might cause the analogy of its instruments to be overlooked. The pieces of hone, however, composing the cranium and face, will furnish us with new proofs. Their purpose is evidently, in all classes, to protect the brain and afford a covering to the organs of sense. The anatomy of the adult man had shown that the cranium is composed of eight principal bones. In like manner it had demonstrated that fourteen bones enter into the composition of the face, excluding, of course, the teeth from this emmeration. Altogether, the human head is composed of thirtyfour bones. Each of these bones has a particular name; each forms a distinct osseons species. Comparative anatomy sought to discover these different bones in the series of vertebrata, and to point out their analogies and differences in the manunifera. in birds, in reptiles, and tishes. In the mamuifera, the bones of the eranium and face are reproduced with such slight modifications that the analogy was easily recognised. Thus the double parietal bone of man becomes simple in many mannaifers: the inferior maxilla, single in man, is constantly divided into two in the animals of this class. Again, the varieties in form of the ethnoid, sphenoid, and temporal hones, have no doubt as to their true signification. In this class we find the benes of the head, as well as the various parts of the brain; the proportions are changed without fundamentally perverting the forms. In birds, however, it is different. In them we find forms entirely unusual in the mammifera; the bones of the face become decomposed and re-united to such a point, that the individuality of the osseons species of the nammitera becomes very often doubtful. It is thus with the bones of the head as with the parts of the brain: the chain of analogies is broken in tishes and birds. We must, moreover, remark that the bones, in immediate relation with the brain, undergo the beast variation. The differences are a pocially manifested in the bones enclosing the organs of sense and forming the frame-work of the the comparative matomy of the brain. The brain in man being very extended, the bones corresponding to it are generally very large. In aidmals the cerebral mass gradually distinishing, these bones are contracted upon it, undergoing different modifications. But, in proportion, as the brain contracts, the organs of science gain in extent that which the brain loses. Hence, the variations and may be transmitted to the air. It you bring and divisions of the hones constituting them - it seems hollow, like that of a bottle, you have a

Thus, in birds, the frontal bones are prolonged forwards to form the roof of the orbits. The most variable portion of the sphenoid bone, is that of the pterygoid processes, corresponding to the palate; that of the ethnoid is the lower or nasal plate, entirely devoted to the organ of smell. more the sense is extended, the further do we find the bones constituting it removed from the centre. dividing and becoming so altered as not to be recognizable, even when subjected to the same use, as with the superior and inferior maxillary bones in the emcodile and the vomer in tishes.

Thus organic form had commenced to direct anatomists; but form becoming decomposed adimmitum, these metamorphoses were successfully explained by function, in the apparatus of the life of untrition. The function, however, being unknown in some apparatus of the life of relation, the form could no longer be reduced to its type. At other times, the use being known, the parts were so altered in form, so multiplied, that it became impossible to combine these various portions together. Lastly, and this it is especially which increased the difficulty, the apparatus changing in function, their forms becoming completely altered, so as to accommodate themselves to their new uses. the usual laws of anatomy lost all application; the inquirer was, in spite of himself, dragged into a labyrinth, and wandered, he knew not whither. It has been remarked, that he who strikes out new rontes in science, has almost always immense difficulties to overcome, Geoffrey Saint-Hilaire gives us a striking exemplification of this truth. Endeavouring to trace the analogy between the osseous head of the fish and the skull of the human adult, he perceived that the latter furnished a smaller number of homes than the former. Rejecting ancient notions, he then conceived the idea of seeking the analogy s of these absent bones in the ossenis nuclei corresponding to the hones of the head in the human embryo. He thus entered on a wide career, the first steps of which were crowned with the most brilliant success. The hony head of the fish, reduced to the natural type of its relations, opened a new path to the solution of a multitude of questions hithertodeemed inempable of explanation. But the variety of observations to be made, and the precautions which were necessary to be taken, to avoid falling into error, alarme tihe fears of anatomists; especially when viewing the animal kingdom, which Geoffroy St.-Hillare described, in its ensemble, a a mere organic unity, diversified in a thousand ways by the variety of life in each grand division of beings. But the analogy of organic composition once proclaimed, it remained only to justify it by facts, the discovery of which, however, required guides of a certain and convincing character. From the necessity thus engendered spring those two general principles in this branch of science :-- i-t, The principle of connections: -2d. The principle of totage ose in organic masses; principles of which we shall find such frequent and striking applications. I shall in the next lecture commence with the consideration of the care brosspinal nervous

COURSE OF LECTURES ON THE THEORY AND PRACTICE OF MEDICANE.

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GENTLEMEN,-At the conclusion of the last leeture. I was mentioning a view taken of the manner in which the sounds of the voice are transmitted to the class, by Dr Schornel of Vienna: and it may be necessary to relate this, because it may lead to a good many more. He consider that they are owing to the principle of consonance, or the production of a sound in the tubes in the interior of the chest harmonionsly with the cound produced in the brynx. In this consonance there must be a certain given and fixed relation between the sides of the cavity, and the vibrations of the body; this may be illustrated by the experiment of the timing fork, which, when sounded. communicates its vibrations to different objects, and may be transmitted to the air. It you bring little vibration; the sound or note of the tuning fork is the same as that of the bottle. This is what Dr. Schornel calls consonance, and through this experiment the phenomena of consonance may be fully developed. But for this consonance there must be a relation between the sound and the size of the cavity, without which it cannot be produced. This may be shown by applying the tuning fork to the month of the patient, though it is difficult to fix it there. There is no such consonance between the size of the tube and the sounds produced in the voice. You hear that consonance in pectoriloguy and bronchophony, and in all cases the sound is very feeble; but it has nothing to do with the existence of any peculiar phenomena that become signs of disease.

I have pointed out to you that this very principle does obtain, to cause some sounds to be londer than others, and I have distinctly expressed this in one of the earliest editions of my work on ansentation; that the reason why some notes are louder than others, and why some notes are heard and others are not, is that there is a sort of acoustic relation between the tubes producing the sound; that where there is a difficulty in the transmission of the voice, then certain notes may be transmitted, and some will not be transmitted Those most likely to be transmitted are those that correspond with the vibrating cavities of the tube itself. All that is new in attempting to give an explanation of this phenomenon seems to be erroneous, and what is true is that which I have already stated, that the phenomena are nothing more than medified sounds transmitted or produced by a discased state of the tubes: transmitted in the same way as in respiration, with this difference, that the sound of the voice communicates with the trachea, and that all the large tubes vibrate in unison with it; that unison being in all the notes, and not in any particular set of notes. In the same way you have a perfect and full vibration in a room where the voice is said to fill the room. It is very difficult for the voice to be transmitted in the faint form of the speaking tone which is just audible across the room, but you know some voices fill the room completely, so that the whole mass of the air is thrown thoroughly into vibration. So in the resonance, or vibration in the tubes; some strong murmur of whatever key is very easily transmitted, if there is no obstruction in the tubes, no pulmonary tissue intervening,-and then you get a steadfast amount of bronchophony, or pectoriloquy, or whatever the sound is. On the other hand, if any obstacle occur and the voice is modified, a part only is transmitted; the squeaking notes will pass through, but the deeper tones will not pass through. This may be in consequence of this law of harmony, which causes some sounds to go through because the capacity of certain tubes corresponds with the tone of the voice, and others do not.

Now I will explain the manner in which the phenomena are produced. Bronchophony is the sound of the voice in a greater number of tubes transmitted to the surface by the superficial and vesicular parts of the lungs, being condensed either by consolidation, as in the case of hepatization, or compression of the external layer of the lung. Ægophony, another variety of sound, is produced in cases where there is liquid, and where the pressure is great, so as to injure the transmission of the voice. This is not so deep a sound as bronchophony. Not only in the variety of sound are some tones of the voice transmitted and others not, but the sounds which are heard have that peculiar character which led Lacunce to call it regophony, or like the bleating of a gout. Another characteristic of this sound is, that it is as it were distant, like a silvery echo; this is not only owing to the interposition of the liquid, causing a difficulty in the passage of the voice, but also it may be owing to the flatness of the tubes. Pectoriloquy again, corresponds with cavernous breathing; here the voice communicates with a cavity in the lung, and the voice becomes transmitted into the cavity, and takes the form of that peculiar apparatus, Here you have not only the voice but the division of the voice into words; you hear the articulate your,—this training called Bestal Horiza

With regard to bronchophony, and in some degree, to, bronchial respiration, you must remember another circumstance that leads to increased sound of the voice; not only, that the sound is transmitted with greater power, but that it is not muffled or destroyed, as it is naturally in the spongy tissue of the lung, which is calculated not only to cut off the communication between the interior and the external parts, but to destroy and muffle the vibration. When the trachea is consolidated and hard, the cause of obstruction ceases, and there is a hard resistent body which increases This is what Dr. Schornel has the vibrations. confounded with consonance. It is the substitution of a good conductor and reflector for a bad conductor and reflector; this is the reason why the sound is so extremely loud that the patient is sensible of it himself, and it can be felt by the hand in soms degree. On the other hand, where the voice is transmitted by a liquid interposed, although the liquid does allow some vibrations to pass through, it is in a slender way. But remember what I have said before, that the sounds of the voice may be cut off altogether by the contents or condition of the tubes; if they are much narrowed by solid effusion, as in the case of hepatization or tuberculous disease, by a great deal of mucus in them, this liquid will prevent the transmission of the voice from the treachea to the larynx, and to the tubes; and under these circumstances you will not have that peculiar phenomenon, although you may have the conditions capable of producing it in the lung. This is one reason why you do not have that peculiar phenomenon so constantly developed as you may be led to expect from the consolidation of the lung. Sometimes it may be absent, sometimes temporary, and sometimes permanent; or sometimes from the tubes being imperviable to the fluid, you have bronchial respiration, and after all bronchophony. The reason is this : the air will pass through the orifice, though the vibrations of the voice will not pass through. The other kind, metallic tinkling, I will not enter into in detail; but I merely advert to it as a phenomenon that may accompany the voice; not only the voice but the cough,

Now a few words on the subject of the absence of pectoral fromitus. I mention it because it has been called in question whether it is a valuable sign or not. I have mentioned to you that there is a natural fremitus perceptible in the chest, in healthy persons even. Now in cases of bronchophony this is very much increased in degree; on the other hand, in regophony, where this sound is transmitted through considerable layers of liquid, the pectoral fremitus is altogether stopped. These are the rules that obtain constantly with these conditions; but sometimes, where there is a great deal of liquid effusion, there is a great deal of resonance of the voice; for this reason-that the lung, instead of being pushed away, is pushed into close contact with the chest. On the other hand, although there may be consolidation of the cavities to produce bronchophony, you do not always have the vibrations transmitted to the exterior, because there may be liquid in the tubes and various other circumstances preventing the free transmission of the voice,

Now a few words as to the mode of listening to these phenomena. Sounds are produced by or may proceed from various causes; but the sounds of the voice mainly depend on air, which transmits sound better than solids. The interior of the chest transmits sounds by air alone, but it is a different thing when the air becomes mixed up with membrane, and where there is a succession of the vesicular texture of the lung, where the sound has to pass successively through a great number of different media. Sounds produced in the air are best transmitted by air; hence the sound of the voice is freely transmitted in the direction of the voice; and whenever the air communicates freely with it, the voice is heard. So likewise in disease; the shrill sounds are best transmitted to the air, through air; but inasmuch as they are confined within a solid body, they are not easily transmitted through the open air; and inaumorb as the open air is an imperfect conductor, where you can get the six confined in a tale, you dat to form a complified educate of transmissing vibrations very freely. This is the principle upon which the stethoscope was constructed by Lacunce.

But some sounds are produced by vibrations of solids, as in the sounds of the broughi, where the vibrations are such as may be felt outside by the finger. Then, again, as to the conditions of solids best calculated to transmit these vibrations. Sound is motion, and motion has a certain degree of strength in it. Those motions that are less strong are less easily propagated, and with more difficulty transmitted from one body to another; and those vibrations that are strong will pass through almost any medium. Suppose, for instance, there was a partition in this room, my ordinary voice would not be easily transmitted beyond it to the other compartment; but, if I exeried my voice very strongly, it would pass through the partition with facility. So with the chest. A greater number of stronger sounds pass through any medium, by air or solids, or sometimes without any intermediate agent; such as the sounds of the larger brought-the large and coarse brought -and the sounds of the heart; some are heard without a medium, or any close contact. But the more delicate sounds become the test of a good conductor, and it is where these delicate and slight sounds are put forth, that it becomes needs sary to construct instruments more adapted to transmit the vibrations, and in some degree to exaggerate them.

Now, there are circumstances which improve air, and render it a complete conducting medium of the sounds produced in it; they are means of enclosing it, so that an impulse transmitted to one part is easily transmitted to another. Sound is, as I said before, merely motion; it is not something hidden. When you apply your hand with force to the end of an open tube, you can force out air with sufficient strength to blow out a candle-so, in the same way, is it that sounds transmitted to a tube like the stethoscope, vibrate with precision and accuracy, and more so if the ends are closed. The impulse communicated to one end is transmitted to the other, because there is no room for dispersion; hence it is, that a column of air is one of the best means of obtaining a communication between a sonorous body, producing sounds in the air, and the ear.

These matters are more enrious than instructive; and the question that we have now to deal with is, what form of cavity is best adapted \$ transmit sounds. With respect to a close column of air, it does not matter much; it transmits sounds as well, and they will pass round angles and through crevices, with such a degree of facility, that if a flexible tube be applied to the cliest, the sound conveyed through the tube will be transmit. ted with considerable force. The reason of this I have explained with regard to mechanical impulse. There is a disadvantage in having large cavities, or large hollows of any kind-tubes containing great exervations-and it is this, that there are new sounds produced in these hollows, such as the sound I have been adverting to-metallic tinkling, which arises from an echo taking place in the hollow, like the reverberation in a bottle, which you may hear on applying your ear to the mouth of the bottle; or which arises from a succession of echoes in a large body, such as the conch-like sounds heard in various degrees. This is heard in a flexible tube, and under these circumstances, with an improvement of this kind, you hear the sound very distinctly, but it is accompanied by a sort of metallic sound. The great object is to have a close column of air, which shall be as small as possible, and yet come as much in contact with the walls of the chest as will enable you to elicit from those walls the vibrations that have been transmitted. This object is accomplished by the trumpet-shaped stethescope, and this form of instrument answers better than any other, for the transmission of air sounds. I refer you to a paper read at a meeting of the Manchester Association, for the reasons for and against this form of instrument.

I now proceed to speak of the production of sounds from the solid wall of the chest. Some are produced indistinctly, as the sound of the rheacht W. most this solid with as into density, and as grow dishifty, as possible. There was the ways of

is better transmitted through air is—sound, being motion, light and rigid bodies are more easily moved than dease bodies. A soft body, such as silk handkerchief, instead of propagating the impulse it receives, disperses and destroys it. On the other hand, rigid bodies are easily thrown into vibration, and the lighter the body, and the greater the rigidity, there is less dispersion. This is the reason why the saunds of solids are so much better transmitted by light and expanded bodies, than they are by dense solid bodies. It is, that the motion is more freely communicated by the elight bodies, of great rigidity, than it is by dense bodies,

This, therefore, should lead us to select instruments of great rigidity, but with little density. and as light as possible. The instruments for this purpose should be either pine, or deal, or eyeamore, they are very rigid, and answer the purpose very well. The form should be very light, in order that it should not interpose too great a bulk. The instrument invented by Lacunec has been used for a long time, and there are many others of a very inferior kind in point of power, particularly for the weaker sounds; and, therefore, we must get an instrument as portable as possible, and as thin as we can have it, consistently with durable strength and rigidity. The trumpet-shaped stethoscope extends over a large surface, and therefore the contact is better, and I doubt if any instrument for the purpose is better. The only objection to this instrument is, that it is fragile, and soon gets broken; Luenner very effectually modified the shape of the in trumout. by carefully listening to the sounds of the chest.

The theories in regard to the sound of the instrument were very erroneous. He found that an instrument without a stopper transmitted the sounds a great deal better than that with a stopper; yet he found that a sound, produced in a particular spot, of considerable intensity, could be heard through the topper, but the sound, that are more diffused would be shuf out by that means. This afford a means of distinguishing between the diffused fremius of the voice, sometimes the natural bronchophony, and the more perfect bronchophony; and by using an instrument with a stopper, those sounds only that are intense and i olded and produced in a given spot can come through; whereas with the interment used without a topper, these sounds are not so readily transmitted. Now this is obviated by having a head-piece made of the rame thickness and density, so that the solid part shall shut out the vibration of the cheef, and the vibration transmitted charmal

I now proceed to some practical illustrations of these phenomena, and the mode of examining the chest usually pure med. Tirst of all with regard to the visual exemination of the chest by sight and touch. The patient heald be placed in a good light, and you hould place your elf in such a position that you can see the motions of the ch and you should then do ire the patient to take a deep breath rather freely. (The bettee for proceeded to exemplify this mode of a conduction by a living model). In order to see are accuracy, it is necessary not marely to no percussion by several effold. Initialso it is a squirite to vary the state of the regiration, in order to try whether there are any difference in the full expiration. Great care should be taken to keep the arms in a symmetrical position. In the application of the stethologies, the object is to get the sound as perbets possible; and rodo this you hould place the instrument in farm and clee contact with the wall of the che t, on raced no uprefit all ounds from the exterior; and when you have so placed the in transent, apply your car that upon it. instrument is made in e of in mersuring the re-piratory movements, and as we shall see when we come to examine the subject of the hear, it is a vehiable in trement in measuring the impulse of that organ. The following is a table of the

SOUNDS PRODUCED BY THE PASSAGE OF THE AIR SOUND OF REPRESSION.

SVIERVI By collision of the air against the sides and angles of signal as

Trackeal. Heard in the neck at the top of the sterning.

Bronchinl. Near the upper parts of the sternum between the scapule, &c.

Verbular, In most other parts of the chest,

MORBID. Modified in production or transmission.

Browchial. Or whiting, transmitted from the bronchi by the conden ed tissue of the lung.

Carerrous, A Produced in morbid cavities commu-

Amphoric. in nicating with the bronchi.

BHONCHI. Produced by increased resistance to the air moving through the lines.

Sibilant, Someons. Produced by viscid mucus in the bronchi, or by swelling of the membranes, or by pressure upon

Macros. Produced by the bubbling passage of air through liquid in the bronchi.

Submucous. Produced by the bubbling passage of

air through liquid in the finer brought, subgrantes of Produced by the bullyting processes of

Subtrepita it. Produced by the bubbling passage of air through liquid in the smallest bronchi.

Crepitant. Produced by the bubbling passage of air through liquid in compressed smallest bronchi.

Caremous. Produced by the bubbling passage of air through liquid in a morbid cavity,

COURSE OF LECTURES ON THE DIAGNOSIS, PATHOLOGY AND TREATMENT OF DISCASES OF THE NERVOUS SYSTEM,

P. MACCHAIL HAIL, M.D., FES, Fellow of the Bend College of Physicians, London, Son, Lee

(UVCLULE VIII). Delivered December 19, 1812)

GUNTLEMEN,—I have gone over the subjects of inthannation, conge tion, apoplexy, and other dicases of the brain, which may be called dyna nie; before I dismiss this subject entirely. I will just make an observation or two on those diseases which may be called adynamic; which as you have already perceived. I have not been able to enter into more fully. One of the diseases which I call adynamic, is the disease called delicina tremen, and another disease that may be called adynamic is that state of the cerebral system which comes on in cases of extreme lost of blood. It is a very common kind of disease, and it appears to be connected not entirely with the loss of blood, but with a state of the intestinal canal, and the general system, at the same time.

With regard to delicing tremens, congestion gives you the true principle and the diagnostic symptone of the disease, and, as I said before, there is nothing so much to be avoided in this disease as blood-letting. I never a m forget having been called to a patient, an athletic young man, by no means apoplecte, affected with delivium tremens. Before I went to him, the practitioner half taken from that young man twenty onnees of blood. He was an athletic young man, whose powers were cutively at the healthy standard. He never recovered from that loss of blood; he could not be recovered from that state of depression into which the blood letting had thrown him. I believe that blood-letting was altogether, from the beginning, erroneous, and therefore onelit not to have been in tituted at all. I need hardly tell you the re-nucly is opinin. The object is to get the patient to keep, to quiet the symptoms by opinin, whilst you are attending to other symptoms that may be

Respecting that state of things that come on inseparation and also partly from the loss of blood, irritation and also partly from the loss of blood, this is very important to be attended to, and requires active freatment from the beginning, there is an unhealthy state of the intestinal canal. There are two other conrecs of it which ought not to be overlooked, and one is the administration of the will be, my hand will be more or less closed.

mercurial purgative medicines; and I have known this to be the immediate cause of the symptoms I am alluding to; and the other exciting cause is indigestible diet, which tends to produce that series of symptoms I have before described; exemciating pain, violent intolerance of light, and violent intolerance of sound. I have to tell you that this is by no means an uncommon disease, for purperal disease is the most common that you must with in receiver.

meet with in practice.

One remark more I must not fail to make: —that this state of things has frequently laid the foundation of puerperal delirium; and frequently, even, it comes on at once in a number of cases after confinement. What then is the practical remark to which I am led? It is this; in puerperal delirium you must view the causes of the disease, and must consider the patient under the influence of gastric or intestinal irritation; and under a state of exhaustion from a previous loss of blood. There are other causes; -mental alienation, and fever are among the principal causes of puerperal delirium, and puerperal anomia. And without reference to these causes, it is impossible for you to go to the disease aright. Dr. Davey used to say, "the question is not whether the patient will recover, but when the patient will recover?" I have known many cases of fatal purperal mania, and I could propose another question in the place of that of Dr. Davey,—whether the patient had been bled or not? For if the patient has been bled, be assured there is great danger, but if the patient be not bled, there is no question of danger at all; and then the question is just that put to the profession by Dr. Davey, not whether the patient will recover, but when he will recover? I can ider a copious bloodletting under these circum-tances, at any rate, to bring the patient into extreme danger, if not to a fatal end; therefore, above all things in such a case, avoid blood-letting.

Now I want to go to the pland system; and I must say a word respecting those diseases I have already alluded to, parely is and hompdegia. This may be partial or total, It may attack an arm or a leg, or the speech alone; it much more trequently affects the arm or the leg, and very frequently, the arm, the leg, and the speech. But sometimes it affects the entire side of the body; so that the patient leases the sensibility of the whole side of the body; he loses the power of the muscular system on one side of the body, yet never entirely. Cerebral paralysis is rarely complete. There is a case, last of all, in which a clot her passed into the vertebral canal; that may be attended with complete paralysis. However, in most cases it is partial.

The next remark I have to make is as to the state of things in long continued paralysis. Unside all let me remark, that in cerebral paralysis, in the general form, the arm is much more affected than the leg, more frequently, and more permanently than the leg. It very often happens that the leg recover, and the arm does not. Look as you go along the streets, and you see many a paralytic person with an arm in a sling, yet walking very well. If the leg were affected as well as the arm, that could not be the case; and incapability of walking would be the terrible effect of paraplegia. Remember then, the arm is affected more than the leg, and it does not recover so easity. The arm always suffers, comparatively—peaking, more than the inferior extremities.

more than the inferior extremities.

Now there is a very curious subject, I want to bring before you very briefly. I have told you about the arm being more affected than the leg;—now the fact I want to impress upoa your minds is, that although the arm is more affected than the leg—the effect of a state of hemiphecia,—it is only the cerebral power that is paralysed, because the true spinal system remains unaffected. What are the reactors of the true spinal system remains maffected. What are the reactors of the true spinal system be paralysed? Why, the true spinal system is the source of tone to the nuscular system. Now, uppose my hand is affected, and has more tone then usual; suppose if he nothing of voluntary power; I open my hand, and what is the consequence? The flexors will be in anticonism with the extenors, and the consequence of

Then from other causes than hemiplegia the hand will be closed. I have known a hand drawn forcibly to the lide, as if there was extreme and sudden pain at the side. Another thing, I told you that it was the cerebral system that was affected; how do I prove this? Why, in this manner. Suppose a patient be yawning; you uniformly find the paralytic arm raised and the other arm not affected The paralytic arm is raised during the act of yawning. Suppose the patient is agitated by any means; it is always the paralytic arm that is agitated. If from any cause the paralytic arm moves, it shakes,

Now, gentlemen, as to the cause of all this, Look at the irritability of the muscular fibre. You may test this by galvanism; put the hands in a basin of water, and let the galvanie : book pass through the water, and the muscles are completely irritated Now submit a paralytic patient to the same thing, and you will find that the paralytic hand will shake. All this will prove that there is a greater irritability in the paralytic limb than in the nonparalytic limb. You thus account for the whole phenomena respecting emotion. Go to a patient, and you find that patient agitated by your approach. Why is it that the paralytic limb is agitated more than the non-paralytic limb? This is the reason. The same power of motion passes into all the extremities, all alike; it passes along the channels unaffected, to the right, and to the left, equally. Why does it shake the paralytic limb more than the other? Gentlemen, because it is more initable than the other. How do 1 show this? In the first place, I must take it as a principle, that every time a muscle is exerted, its nritability is diminished—every time you use a muscle, that muscle loses its degree of irritability; and, therefore, a person after violent exertion, will have less irritability in the muscular fibre than a person after sleep. Sleep restores it, and exertion diminishes it. Now compare the two limbs, the one used, and the other not used. In one case, the irritability of the muscular fibre is exhausteddiminished; in the other, it is allowed to remain. Now, trying the effect of emotion, that would go to show that the shock would affect the limb most irritable. I exemplified this in a peculiar way on one of my patients. I told him to put one hand in a basin of water, and pass the galvanic shock; he came to me and told me the paralytic limb shook most. Therefore, you have these phenomena recounted for.

There is one other fact i must notice. If you give strichnine to a hemiplegic patient, what happens? By and by, you see the spasmodic effect of the strichnine in the contractions of the muscular fibres, but the paralytic limb is affected first, (the power of the strichnine extends to the right as well as the left.) and the paralytic limb is affected more than the other. This may be said to be through what appears to me a connexion with the cerebral function, which diminishes the irritability of the muscular fibres

I will just now conclude this subject with one brief observation; that however true all I have said to you is with regard to eases that have lasted long crough to produce these changes, yet in exccedingly old cases there is an exception to the Suppose the case of a paralytic limb of very long duration, in hemiplegia, so long is there an in reused irritability in the muscular fibre of the lin b in connexion with the spinal marrow-a considerably augmented irritability,—but in the limb in connexion with the brain, there is an exceedingly diminished irritability.

I am afraid I have taken up too much of your time with this matter, but I thought it quite necessary to give as much to the subject of cerebral disca es. I must now draw your attention to the diseases of the true spinal system. These diseases like those of the cerebral system, are divided uniformly into two classes, those which for the most part affect the membranes, and those which for the most part affect the marrow itself. It is rare that an inflammation of the membranes of the spinal marrow exists without inflammation of the membranes of the cranium; so, therefore, it is rare to have inflammation or spinal arachnitis, without the complication of cerebral arachnitis at the same time. But it

portant that I should describe the drease it all. Now what are the symptoms of machinitis in the spinal canal. In the first place, I believe, you may often trace it to the common cause of exposure to cold. I remember a patient who suffered from this disease from having got chilled in a pouring rain. He came home attacked with spinal arachnitis. I must, however, observe, that a blow or any other violent concussion may be the cause of spinal araclmitis.

Now for the true symptoms. They are pain and spasmodic affection. If there are any other symptoms beyond these, they may be said to be spasmodic affections affecting particular parts of the muscular system. Now with regard to pain; you constantly find in practice, that a proposition is made, to press along the spinal canal and the vertebræ, and to determine whether there be pain. If this is done with any other view than to determine whether there be any affection of the vertebræ themselves, or the muscles, or the tendons, or the ligaments about the vertebrae, the practice is an utter fallacy, because no pressure along the spinal column will affect the parts within the spinal canal. If the object is to ascertain if there be any disease of the spinal column, the bones, or the ligaments, or the contiguous muscles, I have no objection to the proceeding. I have seen it commonly had recour ie to when the question has been, not whether there was disease of the bone or ligaments, but whether there was any disease in the spinal canal. I say with regard to pressure, it does not assist your diagnosis, as to whether or not there be any ease in the spinal canal. Schofield recommended the passing of a sponge taken out of hot water along the spinal canal; this appeared to me better a primi. I tried the experiment, and found it to fail; I never could detect any symptoms of pain in the canal, even when the patient said there was pain in that spot. I do not believe that the pain is aggravated by this pressure. There is one measure that lms been adopted, that of counter irritation along the spinal column: I have seen it tried, but not with any good effect. Generally speaking, if there is pain, the patient points out the locality of the pain, and you can point it out.

With the pain, as I said before, there is spasmodic affection, and in one case I remember, the patient could not open the two forefingers; that case con isted of pain between the shoulder blades, just about the origin of the nerves supplying the arm; the patient saw double, - there was a little strabismus, confirming the observation I made, that with spinal araclimitis there is probably cerebral arachnitis; these were the three symptoms:-pain about the nerves running to the arm, a little strabismus, from affection of the nerve of sight, and a peculiar contraction of the fingers. In other cases you have other spasmodic affections; for suppose it is higher up in the spinal canal,-you have some affection of the breathing. One of the most common symptoms of true spinal affection is the sensation of a cord tied tight round the waist; I suppose that must depend on some contraction of the diaphragm. I do not pretend to say it is so; indeed I am not able to trace it to any peculiar affection of respiration, and I am not able to connect it with any peculiar state. except this state of things. This cord, or tightening round the waist, however, I have noticed over and over again, in cases of this description. It is mentioned in all works that treat on the sub-

What other parts seem most liable to be affeeted? Those parts below the abdominal viscera; for instance, the sphincter of the rectum, in some the bladder is partly contracted. In some other cases you find spasmodic affection of the lower extremities, so that the too is drawn under towards the heel. In cases of spinal arachnitis, the symptoms are various in duration, but eventually they almost all terminate in a transition from spasm into paralysis. When it is no longer irritation of the spinal marrow, but compression, you have a transmission from spasm to paralysis; and when you trace that state of things having passed into paralysis -that paralysis being, not hemiplegia, but para-

may be profity three of some disease within the quinal canal.

What is the difference between spinal araclinius and inflammation of the substance of the pinal marrow itself? I believe, there is much less pain, much less spasm. In softening of the spinal marrow itself, you have no inflammation of the membranes of the spinal marrow; therefore, in these cases, if you find pain and spasm, or any symptoms of that kind that imply the early state of paralysis, you may look rather to the affection being in the substance of the spinal marrow, than in the membranes. In one case, the most sudden I ever witnessed in my life, attended by the late Dr. B .---, the patient came to complete paralysis in three or four days. Such a case I never before witnessed, was the rapidity of the disease, that one might be said to have been taken with amazement. I thought it would be like most cases of hemiplegia, but it was complete in less than five days. I was struck with that point, and so was the physician who attended the case, and who is now no more. That case was one of ramollissement of the spinal canal. Sometimes, gentlemen, you have the spinal canal affected by accident, or the spinal canal may be affected by compression from that cause. Here the cale was represented by a person who fell from a height on his head, so as to fracture the spinal vertebra, dividing it into two. Here you have perfect paraplegia, suddenly brought on by that accident. There is another case of a very different kind-the most interesting you can imagine; on the posterior part of the body of the vertebra, and, therefore, touching the anterior part of the spinal canal was a very small exostosis. It was a patient attended by the late Dr. B .the patient was drawn as it were double. that could be done was to allay the irritation of the anterior column of the spinal marrow; for years and years he had been suffering agony of pain. You see what an imperiant confirmation this is of the theory of Sir Charles Bell, namely, that whilst the posterior column of the spinal canal is for senation, the incident nerves of the anterior column are for motion. Here you have an exostosis, a sort of vertebral cyst irritating the anterior column of the spinal marrow and producing a doubled state of the animal frame, the patient suffering torture and spasmodic affection.

Such, gentlemen, is a general description of disease within the pinal canal; there are various others to which I can hardly do more than just refer. You find assistention of the membrane; portions of the arachmoid ossified, ramollissement of the spinal marrow. Now I have to introduce a subject I have not yet touched upon, and it is a point which requires a careful attention, in order to understand to what it leads. You are aware of what I said respecting reflex actions; you dash cold water on the face, and an impression is made on the nerve; it produces some effect; that is carried to the spinal marrow and sent back through all the other nerves to the muscles of inspiration. If you irritate the fances, the impression goes round the nerve, goes to the spinal marrow, and is sent back again to the muscles of respiration, and vomiting is produced. In a child suffering from encephaloid diseases or hydrocephalus, you have this state of things; the cyclid closes by reflex action, and if the eve does not close there is an absence of retlex action. Whydo Lintroduce this just at this moment? - Just to show what in the case of spinal disease does in fact form your diagnosis. You come to a case in which there is discuse of the spinal canal cases, is partly contracted, and the splineter of at a certain point. Suppose the disease is severe, and the action of the spinal canal below that diseased portion of the spinal marrow is left; if then you were to apply any stimulus to the foot-and the best stimulus, I tell you, once for all, is a ponge taken out of hot water-not too hot, lest it hould scald the kin,-or taken out of cold water; in either of these cases you will have the foot drawn up, and it will be by reflex action. Another means is to prick the heel-this produces reflex action, passing to the other leg. This is observed in cases of paraplegia, but in some cases it is not sometimes does happen. It is, therefore, im- plegia, cutting the body as it were asunder, you observed; and I believe that in the first stage of

this investigation respecting the true spinal systen, that was considered almost a proof, an incomplete one it certainly was for the reason I now allude to. Suppose the disease, instead of being as before is lower than the cauda equina, and all the spinal nerves close where the cauda equina terminates, between the last dorsal and the first lumbar vertebra.—suppose the disease is there, can you expect reflex action there? You observe the part that is ent off; you observe there is no spinal marrow; in order to have a reflex action, you must have the incident nerve left, and the reflex nerve left, and without this you can have no action. Therefore, you see the distinction between disease below the last dorsal vertebra, and discuse above the last dorsal vertebra. In the former case you have no reflex action, in the latter case you have.

Now we come to the diagnosis of that. There is a fact of great interest in a physiological point of view. In some cases of entire paraplegia, you find that the patient is capable of becoming a father—of producing a child; and in other cases such an event cannot take place. If the disease is above the lower part of the spinal marrow, and a portion of the spinal marrow be left, there is no reason why such an event as this may not take place; but if there is no portion of the spinal marrow left, if the reflex part is not continued, it is obvious that such an event cannot take place; for the whole act of generation depends on the true spinal system, and you cannot have this in operation unless this organ be entire.

There is one more observation t wish to make to you, because it is interesting in a practical point of view, and in a diagnostic point of view. It seems that it is the opinion of many persons, and especially of one of the most eminent of our smgeons—that you may have in some cases, disease of the arms-extreme paraplegia of the arms, yet no paraplegia of the legs. Now it is quite plain that if you have disease above the origin of the brachial plexus, that all below that will be in a state of paraplegia. I believe the above phenomenon is diagnos ticated from disease of the bone, but not from disease of the spinal marrow. Suppose there is disease of the bone above the origin of the brachialple cus; that will produce irritation of the parts through which the brackful plexus passes, the nerves will contract, and there will be paralysis of the extremity as the consequence. What then is the consequence of disease of the bone, not affecting the spinal marrow? You may have the arms affected and not the legs.

This terminates the diseases of the spinal centre. What have I to say respecting their treatment ?-However, before I come to the treatment I must make one observation. There is an interesting paper by Louis, of Paris, showing that wherever there is disease in the bone, there is disease with it in the spinal marrow,-affecting the spinal marrow just as inflammation or ramollissement. Why do 1 mention this just now?—hecause the case is a curious one. Louis says, "we learned that in ease of di-ease of the bone which produces paralysis. it is not by compression of the spinal marrow, because that is rare, but the contiguity of the discase of the bone leads to ramollissement" and he says that in this case an issue proved available, and the conclusion come to is, that in all cases of ramollissement or inflammation of the spinal marrow, an issue is the remedy. You must cup the patient along the spine until you produce some impression on the system; and I would recom-mend you to add to the cupping, counter irrita-Now I go further, and say that I believe of all the remedies for disease in the spinal canal, the most important is deep scated counter irritation. What do I mean by this? Superficial irritation is that produced by the application of blisters, mustard poultiees, and other things of that kind; but deep seated irritation is produced by ctons and emploing. I need not tell you that it is important the patient should remain in the recurabent posture, and every means of producing quiet should be attended to; purgative medicines hould be administered; the patient should be kept extremely quiet, and nothing should be taken ef a stimulant character; barley-water should be almost the sole diet during the first stage of the disease. After this, active measures may be adopted—as much as the patient can beer—leeches or cupping. Other remedies may be adopted, which I will not now advert to, because I cannot sanction them by saying that I have met with any decided case in which they have had a good effect,

Before I conclude, I must tirst advert to one or two points; the first of which is that the urine under the influence of the ganglionic system, is apt to become alkaline. I do not know that this leads to any mode of treatment; but it is a fact that every one should know; and the second point is that the skin on the sacrum is very liable to become affected with mortification. I need hardly say how important it is to attend to this point; I suppose it partly arises from continued pressure, partly from the escape of the beces and the urine, and also from a morbid state of the ganglionic system in that part, by which nutrition and secretion are not complete. Another point is the case of stupor, as in cerebral diseases, in which the bladder is very apt to become distended, and the patient is only relieved by the passing of the catheter. Not only the bladder, but the rectum itself is disordered in this way; and, therefore, in all cases you must adopt measures, such as aperient medicines. This concludes my observations respecting spinal diseases.

HUNTERIAN ORATION.

(Concluded from our last.)

But Hunter's object was not only to dissect, observe, detail, and exhibit a mass of detailed facts in anatomy; he had far higher aims than that of a mere collector of facts, even in comparative anatomy; and his feelings on this point were sufficiently expressed when, in reply to an invitation on the part of Sir John Pringle, to collect all his dissections of the turtle, and send them to the Royal Society, he stated, "that the publication of the description of a single animal, more especially of a common one, had never been his wish."

Mr. Hunter was not only in possession of numerous and precise facts in anatomy: he approximated them-he compared them together, and by his superior genius, arranged them in the true order to be followed in comparative anatomy-that of organs; for, as has been well observed, if species is the object of comparison in zoology, organ is evidently that in anatomy. Of the successful manner in which Hunter disentangled and unfolded these organs, tracing them from one species of animal to another, and exhibiting their modifications, museum is his the faithful record; and his labours in this respect must assuredly be regarded as the first great attempt to arrange in systematic order the detached facts of comparative anatomy. When I represent his arrangement as that according to organs, perhaps I ought to add, to function, for although the former was the visible manifestation, the latter was the presiding idea. And the 4to, manuscript catalogue, the most valuable Hunterian document remaining to the College, derives its chief importance from the information it supplies respecting the scheme of arrangement, and the general physological principles intended to be illustrated by the different series of preparations. It was this circumstance which distinguished Hunter from the other most successful cultivator of comparative anatomy of modern times. He studied this important subject with a view to physiology-Cuvier with a view (chiefly) to zoological clas-

I infortunately for the earlier recognition of Hunter's high claims in anatomy and physiology, these could not be fairly or fully estimated until his manuscripts were published, within the last few years, by the College, in the physiological catalogue explanatory of his collection. And what must not science, as well as his reputation, have lost in those ten folio volumes of manuscript so shamefully committed to the flames.

But Mr. Hunter's Memoirs and Essays on various parts of the Animal Œeonomy distinctly shew the vast range of physiological subjects which his mind grasped. And those who seek to know what his powers of observation, reflection, and investigation, were capable of, would do well to read his papers on digestion, animal heat, respiration, and generation, and consult the corresponding parts of the physio-

logical catalogue.

As the vital organs and their functions had occupied a large share of his physiological inquiries, it is not surprising that the views which he thereby acquired were made available by him in his investigation and explanation of disease, and in his treatment of it. The powers of the absorbent system, and structures and properties of blood-vessels, the properties of the blood, the reciprocal influence of the different organs on each other, and a number of other physiological truths, all occupied their place in his pathology and practice. If he may have rated the powers of the lymphatics too highly, and sometimes given them too prominent a place in his views of morbid action, he did not over-estimate the power of absorption-an estimate which, with his true appreciation of the cause of failure in the old operation for aneurism, led to one of the most brilliant improvements in the treatment of disease to be found in the whole history of surgery.

It is scarcely possible to praise this improvement too highly, so great in itself, so fertile in its results, for it has conferred life upon hundreds. It was not only that a safer and more successful operation was introduced, but this very safety and success led to its application to numerous cases of the disease, which, under the old method, durst not be meddled with, the patients being left to their fate.

Knowing that Mr. B. Phillips had been for some time collecting from English and foreign works the number of various surgical operations recorded, and their relative success, I applied to him to fornish me with the number he had been enabled to collect upon the subject of anenrism treated according to Hunter's method, and he has been so obliging as to furnish me with the following return. 389 cases of anenrism had been so treated, and the result 277 cures.

	Cases.	Cures.
Subclavian	80	46
External iliac .	. 79	62
Carotid	7-1	59
Femoral	. 113	77
Humoral	30	24
Various	. 1:3	9
	2100	
	389	277

And when you consider that the operation, as an established one, has, of late years especially, been often performed without any record of it being published, you will perceive that I have not gone beyond the truth in asserting that it has conferred life upon hundreds

Among his pathological essays, the one on inflammation of the veins may be mentioned with especial praise. He was the first who understood and explained the nature of the malady, and opened the road to the additional discoveries made since his time. In his paper on Intussusception, he ingeniously shows how the different varieties of the disease are produced; and in his Essay on the Formation of

Loose Cartilages in Joints, he satisfactorily explains their presence by a reference to pathological preparations. But the loftiest efforts of John Hunter are to be found in his work on the Blood, Inflammation, and Gun-Shot Wounds. The mode of investigation in this masterpiece—the application of physiology to practice-suffices to distinguish him from all preceding writers, and may be considered as the basis of modern pathology. Its influence is felt not merely in surgery, but in medicine, for its principles are catholic. Up to the time of Hunter, surgeons were content to take their general view of the nature of disease from physicians. He emancipated them from their trammels, and established a body of doctrine so sound that it has wholly superseded the airy theories of medicine previously current. Nay, it seems to have stifled similar phantasmata in their birth, for since the days of Cullen and Brown no new system of physic has obtained the slightest vogue in England.

Hunter's consummate skill in the experimental investigation of physiological questions has been often and most deservedly extolled. That famous experiment with the egg-the most brilliant thing done with an egg since the days of Columbus-has set the question of

vital heat at rest for ever.
"I put an egg," he says "into a freezing mixture at zero, and froze it, and then allowed it to thaw. Through this process I conceived that the preserving power of the egg must be lost, which proved the ease. I then put the egg into a freezing mixture at 15 deg, and with it a new-laid one, to make the comparison on that which I should call alive, and the difference in the time of freezing was seven and a half minutes, the second one taking so much longer to freeze."

This experiment, and those which follow, may serve to shew John Hunter's mode of advancing in knowledge. By a scrupulous observation of facts, he gradually ascended from the particular to the general, instead of assuming a principle a priori, and bending thats to source with theory. I cannot, in short, praise his method more highly or more justly than by saying it was the one pursued by all who have obtained a lasting reputation. in ancient or recent times, as natural historians. It was this which enabled Aristotle to carry off laurels in the field of zoology, as immortal as those which he carried in metaphysics and He was one of the greatest obdialectics. servers that ever existed, says Cuvier, and had the most extraordinary genius for classification that nature has hitherto produced. Some of his aphorisms, adds the same great authority, from their generality presuppose an immense number of observations.

It was upon this that Galen's great reputation was primarily founded. He was one of the most successful prosecutors of anatomy of his time, although obliged by its prejudices to content himself with the examination of animals, and consequently falling into error when the structure of man differs from theirs. He made many discoveries in anatomy and physiology. He was the first to prove by experiment that the arteries did not during life contain air, but blood; and the first to shew by their section the influence of the recurrent nerves on the voice, which nerves he discovered and traced to the larynx.

It was this method, which, revived by the great trimmvirate of Italian anatomists of the sixteenth century, Vesalius, Eustachius, and Fallopins, was followed by Fabricius and our countryman Harvey, and which was established by Bacon, as the true logic of science. try, did they entirely compensate for the want Their undying reputation proves its success. of early education? Some answer, "Yes;"

and when we impartially weigh what Hunter accomplished, we need not fear to compare him with the shining lights that had gone

In order, however, to form a just estimate of his comparative merits, we must look at the circumstances in which his rivals in the fasti of science were severally placed.

Thus, the position of Aristotle was most favourable, and both he and Galen received the best education which opulence and the severe discipline of Ancient Greece combined, could confer in philosophy and literature. modern times Pabricius and Harvey, with the triumvirate I have mentioned, were equally fortunate, and if we pass from these eminent forerunners of Hunter, to Cuvier, his distinguished successor, we shall find that he also had walked from his childhood in the paths of learning and science. His early education was the chief employment of his mother-a woman of superior understanding united with the greatest tenderness. Without knowing the language, she made him repeat his Latin lessons to her; thus practising unconsciously perhaps, a precept of Locke. He drew under perhaps, a precept of Locke. her eye, and she made him read numerous hisher eye, and she made him read numerous instorical and literary works. "It was thus," says M. Flourens, "that she developed and fostered that passion for reading, and that extended curiosity, which, as Cuvier says in his memoirs, were the mainsprings of his life."

At the academy of Stuttgardt, Cuvier received an excellent education, and when driven to battle with the necessities of life at 18, and seek a subsistence in a foreign land, he was rich not only in knowledge, but in the confidence acquired by the constant successes of his scholastic life.

The career of John Hunter differs from the others I have enumerated in one very important point. His father died early, and it was his misfortune to have a carelessly indulgent mother, so that he passed his boyhood in sauntering, in country sports, and in cabinetmaking. It was not till the age of twenty, that hearing of his brother's success, he gave up the dolce far viente for the rest of his life; came to London - entered William Hunter's dissecting room, and worked as few have worked before or since. Poverty and contempt had been imminent, but he burst with giant strength the bonds of habit which confined him, and escaped from the threatening spectres for ever.

This triumph achieved, the rest was comparatively easy. After this, we must no longer consider his eareer as an instance of "the pursuit of knowledge under difficulties." On the contrary, he had many special advantages.— "He began," says Sir C. Bell, "to work for himself on the excellent basis of his brother's labours." William was a man of good education, an accomplished anatomist, and rising into praetie: as an acconcheur. He had begun to form his museum, and his house gradually became the resort of those who wished to advance the art which they practised. Nor must we omit the important fact, that this brother, whose public and private tuition was destined to develope the genius of John Hunter, was ten years older than himself; a difference which would enable him to add something of paternal authority to brotherly persuasion. The same advantage was enjoyed by Charles Bell, and we have already seen with what

Yet, great as these advantages were, backed, too, by splendid genius and unwearied indus-

nay, it is even a question with them whether a better and more learned training might not have stunted that eager euriosity, that faculty for observation, that power of generalizing, which he possessed in so eminent a degree. This cannot be determined now; for instead of knowing the whole history of his feelings and attainments, some fragments alone have reached us: but it is very certain that a learned education had not this freezing power with those distinguished men to whose eareer I alluded just now. And then, reflect on the advantages which good training gave them.— Take Cuvier, for example. Whence did he derive the clearness of his descriptions, and the facility of his style both in written compositions and in oral communications? Whence but from the literary toils of his boyhood at Stuttgart? who, that sat on the benches of the amphitheatre at the Jardin des Plantes, will ever forget the impressions which he produced?

This clearness of expression cannot be predicated of John Hunter. When he gets beyond mere description, his language becomes obscure, and it is evident that composition was not easy to him. As a consequence of this, many of his MSS., among others the catalogue of his museum, were never completed. When we view him as a teacher, however, censure is swallowed up in admiration.

Nevertheless, it is said, that he was deficient as a lecturer; and he certainly seems to have wanted that vivid diction by which some men are enabled to enchain the attention of their andience, and lend the charm of novelty to the most familiar details. Sometimes, too, he appears to have been unable to express what he meant; and it has been boldly assumed, that, on such occasions, he had no meaning at all, and was "labouring with the delivery of nothing." Let us deem more nobly of John Hunter. Who can doubt that, in such instances, his mind was often wrapt in the dim vision of heights which he was not fated to ascend? What labourer in science or art, has not felt the force of the nequeo monstrare et sentio tantum? Without fluency and vivacity, however, a lecturer can rarely be popular; and hence John Hunter's lectures were but thinly attended. Like Milton, he probably was content if he could "a fit audience find, though few;" and he might, indeed, have been satisfied could be have anticipated the future glories of his pupils. Let us estimate his lectures, not by a cold analysis, but by their effects. When Demosthenes had thundered forth a Phillipie, the Athenians did not say, "What a fine oration!" but, "let us march against Philip."

The notes of John Hunter's lectures which have come down to us do not contain many specimens of his peculiar manner. account of the treatment of cancer, however, is an example of his strong, unsparing good sense conveyed with extreme familiarity of style.

" No cure has yet been found; for what I call a cure is an alteration of the disposition and the effects of that disposition, and not the destruction of the cancerous parts, which extirpation, however, will often cure, as well as we could do by changing the disposition and action. Arsenic seems to have some power of this kind; and its effects might be increased by being used internally and externally; but its use is very dangerous, and, I am afraid, insufficient for the disease. This is a remedy which enters into the empirical nostrums which are in vogue for curing cancer; and among which Plunkett's holds the highest rank. But this is no new discovery; for Sennertus, who lived the Lord know how long ago, mentions

a Rodriguez, and Flusius, who obtained considerable fame and fortune by such a composition. I was desired to meet Mr. Plunkett to decide on the propriety of using his medicine in a particular ease. I have no objection to meet any body. It was the young one. The old one is dead, and might have died himself of a cancer for aught I know. I asked him what he intended to do with his medicine. He said, 'to cure the patient.'- 'Let me know what you mean by that. Do you mean to alter the diseased state of the parts? or do you mean by your medicine to remove the parts diseased?, - I mean to destroy them, 'he replied. 'Well, then, that is nothing more than I or any other surgeon can do with less pain to the patient. Poor Woollett, the engraver, died under one of these cancer-curers. He was under my care when this person took him in hand. He had heen a life-guardsman, I think, and had got a never-failing receipt. I continued to call on Woollett as a friend, and received great aecounts of the good effects: upon which I said, if the man would give me leave to watch the appearance of the caneer, and see myself the good effects, and should be satisfied of its curing only that cancer (mind, not by destroying it,) I would exert all my power to make him the richest man in the kingdom: but he would have nothing to do with me, and tortured poor Woollett for some time, till at last I heard the sound testicle was gone, and at length he died."

I have stated that Mr. Hunter's lectures were but thinly attended, but that he might have been satisfied could be have anticipated the fame of his pupils. Among those who lived in his house, there were several who attained great eminence in their profession. But there were other pupils of his who had not these advantages, and yet drank deeper-far deeperof the spring open to all. Among them may be ranked Poli, Searpa, Blumenbach; and others who, fortunately for the progress of surgery, developed some of his favourite ideas with more fulness and precision than their master himself, and strove to instil into their scholars the doctrine and practice of their great instructor.

One of the most distinguished of these was Abernethy. In his Essay on the Constitutional Origin of Local Diseases, he has most ably made out his point; and, both in the treatise and in his lectures he surpassed John Hunter in the clearness with which he laid down the principle, and the practical tact with which he followed this law into its consequences.

Sir Astley Cooper, a still more illustrious man, was numbered among his pupils, and excelled him as a practical surgeon as much as he fell short of him in the qualities of a philosophic teacher. Every work of his was based on the most patient anatomical examination, an I thus became a faithful commentary on nature herself. Histreatises on Hernia, on Fractures and Dislocations, and on Diseases of the Breast. might found a reputation singly; what have they done united ?

John Thomson, too, still left to ue, was another pupil of Hunter's, who, in his celebrated work on Inflammation, followed out in a kindred spirit the views of his great master.

It is probably not going too far to say, that to the veneration in which these three distinguished non held the opinions and example of John Hunter, and their constant reference to him in their lectures, the propagation of his doctrines, and their influence on English surgery, has been mainly owing.

I will not detain you by observations on the personal peculiarities and failings of John Hunter; but there is one anecdote, which ca- merised her again, the fits having decreased to want of space, insert our correspondent's note.

hibits so strongly his practical tact, as well as his Johnsonian style of coming to the point, that I cannot refrain from quoting it.

He happened one day to call on Mr. Nicoll when his wife was pregnant for the sixth time, and took the opportunity of asking him whether be intended to kill this as he had killed all the rest of his children. Mr. Nicoll, it seems, had adopted what is called the bardening system with all the previous ones. Not understanding the question, however, he asked John Hunter what he meant. "Why," said John Hunter, "do you know what is the temperature of a hen with her callow brood (chickens), because if you don't, I'll tell you." He then proceeded to explain the necessity of warmth to young animals, and convinced Mr. Nicoll of the propriety of changing his plan, which he did, and with complete success.

It was finely said by Dr. Beddoes, that " when one heard that Hunter was at length the first surgeon in London, one felt a satistaction like that which attends the distribution of poetical justice at the close of a well-told

With this sentiment the intellect and the heart must alike agree; the honest and the clear headed must equally exult in the ultimate success of John Hunter. Yet I will observe, in conclusion, that, had his career been cut short at an earlier period, he would not have laboured in vain, far less would be have lived unhappy. Unlike him who toils for gain alone, and whose praise is measured by the wretched gold which he has accumulated-unlike the warrior or the statesman, who must appeal to success for justification, and whose failures are reckoned as crimes by exa-perated nationsthe man of science labours in a genial field, where excition is it; own reward; for while the worshippers of power and wealth are sickened by each trifling disappointment, the humblest acolyte in the temple of knowledge feels that it is good to be there, and that even failures are but lessons. The pursuits of the scientific inquirer, when carried on in a right spirit, stand second to none among all the subjects which can occupy the human mind. Though faction and avarice unceasingly murmur in the vicinity, his mind remains unruffled by their clamour. Like the fleece of the Hebrew leader, while all around is parched, he alone is fostered by the gentle dews of heaven.

**** A SURGEON'S EXPERIENCE ON MESMERISM.

Fo the Editor of the 'Medical Times.'

Sir,-Allow me through the medium of your scientific and impartial Journal to state one or two points, more particularly for the information of the learned editor alluded to in your paper of the 11th inst., as to the importance of mesmerism in the alleviation of disease. I was called in haste in September to visit S.P., aged 18, affected with fits; on my arrival I learned that she had twelve in the previous four and twenty hours; she complained of great tenderness, in the spinal cord on pressure, region of the liver and pubis: catamenia suppressed for the last two months, in consequence of cold caught after their last appearance; she presented altogether an aspect of great debi'ity. Lecches and blisters were applied to the spine and side; hip both, with Mist. Ferri Co, and sulphates of quinine, and on the accession of the fits, assafetida, enemas, &c. Notwithstanding these and other active remedies, the fits obstinately persisting, I mesmerised her at the first sitting in five minutes; she awoke in fifteen minutes, expressing herself inclined for further sleep; the next day I mes-

six in the 24 hours; in short I continued to mesmerise her every second day till quite free from fits. Her strength has returned, and it is now two months since she has had a fit. The other was that of a young woman, aged 19, similarly affected with chlorosis and fits; the chlorosis was removed by the usual remedies, but the fits still continued. I mesmerised her at the first sitting in two minutes, the fits have not returned, and she expresses herself as feeling the next day increased spirits and appetite. Now, Sir, I do not mean to recommend the indiscriminate employment of this agent in every case, nor substitute it for acknowledged remedies, but where there is no cerebral affeetion, I should not hesitate to employ it: it strengthens the nervous system, improves the digestion, and tranquillises the mind.

I have the honor to be, Sir, Your obedient servant, W. BOYTON, Surg.

Wattington, Oxon,

NOTICE.

Our next number will be one of extra size, containing 72 columns, and will be exclusively dedicated to pharmaceutical medicine, chemist, the druggist, the general practitioner, will on seeing it, own that so much interesting scientific matter was never presented to them at so cheap a price, viz. 4d., or 5d. stamped. The ingredients of all the celebrated patent medicines-the improvements and discoveries in medicine during the last thirteen months, will Le two among the numerous articles published. We shall feel obliged if our medical friends will communicate this intelligence in quarters where it may be of service.

ROYAL COLLEGE OF SURGEONS, IN LONDON

TIME COUPSE of LECTURES in the Theatre of the College, for the present year, will be commented on TUESDAY, the 14th of MARCH instant, by Professor Bransby Ceeper, who will deliver Six Lectures on the Anatomy, Physiology, and Pathology of the Neck.

The Second Part of the Course will be commenced by Professor Owen, on TUESDAY, the 28th of MARCH instantonial will deliver Twenty-four Lectures on the Organization of Animals, compared in the ascending Scale according to the Classes.

the Classis.

These Lectures will be delivered on Groundle day, and Saturday, at 4 o'clock.

Cards of Admission will be issued to Members of the College, upon personal or written application, to the Secretary, at the College, between the hours of 12 and 1.

By Order,

EDMUND BALFOUR, Sec.

TO CORRESPONDENTS.

Mr. Hands is thanked.

A. II. and others .- The Ervise proserutions of Druggists will form a sulfect for observation next

Mr. Eggis .- Of centse the Ceremer has the power to award him remuneration, and if he refuses under the circumstan es will be held guilty of a misdemeanuar. M. R. C. S.—Mr. H. W. Y.—Inquirer—Spes—

The case by Dr. W. dies not sut us.

 $\Lambda.~Z.-Of$ course it is illegal.

Mr. Prankerd's communication has been recencil and will be noticed in our next number.

Quiz is server on Mr. Burgess, the firmer charaptedist and subordinate attendant of the subordinate ambulatory infirmary lately in Blenheim Street, and now Heaven knows where. But not more so them he deserves, The accusation we launched against him lies unrebutted, an accusation which no gentleman could have deserved, and which no innocent van would lose an hour in disproving. We are sorry that we cannet, from

M. D.—The fee for attendance, with a post-morteri evanination, at a Coroner's Luquest is fixed by the Med-cal Witnesses Bill at two guineas,

" In enemy to injustice" will see that attentive to our duty we have anticipated him. If we do not cone pel Mr. Wakley to do justice to medical men it shall

Mr. Self,-We like not that paradoxical entity This is our explanation.

THE MEDICAL TIMES.

Saturday, March 4, 1843.

Let one write very be not, for a I shall It it be made at penetrable (tod). It dimends as both rether the prior is a that it be prior and but with against sense

Preparation our readers for a ride shock to their sensibilities, we solicit their attention to the following alarming announcement in the last week's Lancet :-

" Scandalous Trick subsequent to an Inquest. -In inserting the following communication, which appeared in the Times newspaper of Wednesday, February the 21st, we have merely to remark, that we shall have something additivnal to publish on the same subject on another occasion. The inquiry cannot rest at its present stage. That a soundalous fraud has been committed, little doubt can be entertained by any impartual person, and we believe that we shall be enabled at no very distant time to drag the KEAL CULTERT before the public.'

We are thus, then (if, forgetting our usual rule of interpretation, we do not hold this as Mr. Wakley's soleum pledge of future silence), to have an inquest on an inquest, and as Mr. Wakley-at least, while it pends -lics under a suspicion of Coronatorial incapacity, we will do him the favour of conducting it ourselves. The honourable member's reputation, as defunct pro tempore, is of course the subject of our inquest, and it will certainly be no fault of ours, if our exertions shall not aid—as he anxiously wishes—in "dragging the real culprit before the public." As, however, it is quite possible that our verdict may reveal a case of felo-de-se, we must, for the present at least, deprecate any more active interference on the part of Mr. Wakley, than may be justifiable in a suspected character, on his trial. Expert as he is in London life, he knows that "Stop thief" is the usual refuge of the humbler brethren of his craft, when hotly pursued by the inexorable policeman: and too much splutter about "scrudalous frauds," and "dragging real culprits before the public," might sadly perplex simple and impartial " Coroners like ourselves, novices in the infinite highways and byeways of roguery.

The first witness we shall call shall be a witness for Mr. Wakley, with whom, by temporary circumstances, he is condemned (so he intimates) to hold for the occasion common cause. The gentleman's name is Rowley, and carefully forewarning the public that he really is not the celebrated Old Rowley whom Chatterton thought it worth while to personate, we publish his important evidence verbatim et literatim.

" To the Editor of the Medical Times.

Sin, - In your weekly journal, published on Saturday, the 25th February, you have meath that Mr. Pledger had so died "came to the eleven o'clock the previous night; that he

sured your opinion of the coroner and jury in terms not very liberal, nor with even-banded justice to either party, respecting the inquest held on Mr. Pledger. You say. 'The verdict was dictated by an ignorant and impatient coroner, and accepted by a silly jury, before whom not the least atom of reasonable, nay, attainable data, was allowed to be produced." In justice to myself, to the fellow-jurymen with whom I acted, and to the coroner, I must request the favour of you to insert in your journal the enclosed statement, which appeared in the Times last week. The facts are there stated as they occurred; and having given your own version of this statement, I think it but fair that you should insert the statement itself, and leave the public, or those who take an interest in these matters, to judge for themselves. What you have set forth is far from being true, viz., that the jury had no data to form an opinion upon. I have no desire, or wish, to put myself between you and the public, as an advocate of Mr. Wakley's conduct as coroper, nor to discuss the opinion you entertain of that gentlemin. He is able to defend himself. 1, personally, know nothing of Mr. Wakley; never having seen him, or spoken to him, but on the occasion upon which the inquest was held; but, as you have attacked the common sense of the jury upon the false premises you have assumed, in a public journal; you should, by the same means, acquit them of the silly and culpable conduct that you have attributed to them.

Your obedient servant, Thomas Rowley.

Foreman of the Jury. Hornsey, 27th Feb., 1843.

Now, in acquitting our office impartially, we feel bound to notice, as attaching more weight to Mr. Rowley's testimony, the important fact (duly and impressively mentioned) that his respectability is not impeached by even a single hour's acquaintance with Mr. Wakley. If we well understand our friend, the essential difference between us is, whether it shall be we, or he, who shall write him down "silly." Though having evidently the stoutest opposition to be written down by special desire, Dogberry-like, "an ass," he seems the readiest creature in the world to lay down the same truism in an autograph; and while making him our acknowledgments for his humble and most obliging facility, let us hope that as we have both tried our hands at the game, to his especial humiliation, the duplicate assurance will not render his Christian conviction the less satisfactory, nor his night's rest the less composed.

The document to which Mr. Rowley refers us is certainly one of peculiar interest. It is signed by the jury, and affects to give " refutations to certain of the allegations" contained in the Times' statement, published in our last number. Here it is :-

The inquest was held on Tuesday, the 7th of February, and it is stated by the writer of the paragraph, published in *The Times* of the 16th inst., that "reports were soon spread that he (Mr. Pledger) had died from the effects of poison." We reply that no such reports existed at Hornsey,-no suspicion whatever was entertained there that Mr. Pledger had either destroyed himself or had taken poison.

ears of the parish beadle," who "thought it is duty to circulate the report, by waiting upon Mr. Wakley, the coroner." The beadle, upon Mr. Wakley, the coroner." Mr. Crouch, has this day stated in our presence that, previous to the inquest, he never heard, and therefore never conveyed to the coroner, any such report.

Lastly, it is stated in the paragraph that " the coroner is reported to have used the following words, at the same time lifting up the deceased's head, 'Ab, gentlemen, this is a sudden death; the man has died from a diseased heart, ' I've no doubt; there will be no occa-

sion for a medical man."

At the inquest one of our number said to the coroner (after the testimony of three witnesses had been given), "Should not the medical man who saw him after death be called in, Mr Coroner?" to which the coroner replied in the following words :-- "I have no opinion to give, Sir; but, if you have any suspicion that he died from any other than a natural cause, then there must be an examination of the body, as it is quite useless to have him here for the mere purpose of stating that he does not know what was the cause of death, for it is certain that he could not tell you that cause unless an examination was made."

One of us then stated that not the least suspicion was entertained that the death had occurred from any other than a natural cause, and another juryman confirming this (and the opinion was unanimously agreed to), added (as expressive of the feeling of the whole jury), that we did not consider, as neighbours well acquainted with the deceased, that there was the least necessity for the evidence of a medical gentleman.

On the ceroner being asked what he himself considered was the cause of the death, he replied, "that he had had too much experience in the office of coroner to speculate on so obseure a matter;" that an external view of the body was in nineteen eases out of twenty of sudden death, medically considered, perfectly uscless, and afforded no medical information whatever;" and that "if any doubt or suspicion of wrong doing in the present case was entertained by only one of the jury, a majority of them had the power to direct him to summon a medical witness to appear at the inquest to satisfy their doubts by a post-mortem exami-nation of the body." The jury again gave the coroner to understand that no such doubt or suspicion existed amongst them.

The first witness who was ealled before us was Caroline Martin, a servant of the deceased, who stated, on oath, that she found him, at eight o'clock in the morning of the 4th of Feb., lying insensible, and perhaps dead behind the counter in his shop, which he had just before gone to open; that she at once called in her fellow servant, and that the dead body was taken into the parlour adjoining the sliop; that a surgeon, Mr. Hands, was sent for immediately, and came and examined the body externally; that she had seen the deceased on the night before, that he then seemed to her to be perfectly well and in good spirits, and that he did not complain of anything being the matter with him or of anything else, that he had not, that she knew, met with any injury or violence; that she had not the least reason for believing that he had taken anything to destroy himself, but that she believed he had died a natural death.

Martha Tribe, also a servant of the deceased, stated that she was called by the last witness to see the body of Mr. Pledger as he lay in the shop; that she had not seen him on

most certainly, as she believed, did not destroy himself, that she bad never heard him talk of destroying himself or wish that he was dead; that she felt perfectly assured that he had died from a natural cause, and not otherwise; that nothing whatever had occurred while she had been in his service to induce her to think that he had taken, or had ever contemplated taking, poison to kill himself.

Lbenezer Pledger, brother of the deceased, stated that he had seen the body of the deceased about an hour and a half after he was found dead; that no circumstance whatever had occurred to raise a suspicion on his (the witness's) mind that his brother had destroyed himself, and that he was thoroughly and perfectly satisfied that his brother had died from a natural

In short, Sir, there could not be elicited from the witnesses, during the examination, the slightest evidence to induce us to believe that Mr. Pledger had taken anything to produce his death. He had resided in the village of Hornsey for nearly nine years, and from his general conduct, not one of us entertained the least suspicion of his having taken poison. In fact not any doubt was felt amongst us that his death arose from any but a natural cause. No influence was used by the coroner to affect our decision other than the clear exposition of his views that he stated as above quoted.

This document is followed by a letter of Mr. Crouch, constable or beadle, in which Mr. Hands, the surgeon, is made to say to him, in private conversation, immediately after the death, that the cause of the catastrophe was diseased heart and apoplexy. The worthy witness further attests that, till ten days after the inquest, and thirteen after the death, neither he, nor any one he had seen, had heard any rumour that the death was caused by poison; and that, up to the moment of writing (Feb. 20), he firmly believed "that the death was natural!" The only remarks this calls from us are, the rather incredible condescension of the truly respectable Mr. Hands, in giving the worthy beadle gratis, off-handed, medical opinions; and the absence of village gossip characterizing Hornsey, when an autopsy, performed the day after the inquest, in the presence of four persons, and revealing such an extraordinary result, should have been utterly unknown in the extended gossipping circle of the veracious Hornsey beadle and constable!

We have, next, Mr. Ebenezer Pledger, a very young man, brother of the deceased, who thus writes:-

After a careful consideration of all the facts and circumstances relating to the death of my brother, Henry Pledger, and all the recent events of his life, I feel perfectly assured, notwithstanding the allegations contained in a paragraph in The Times of Feb. the 16th, under the head of 'A Slight Mistake,' that my brother died a natural death, and did not take poison to destroy himself.

Now, the first fact we have to mention is, that the jury's statement, though recording conversations with the verbal precision of an able short-hand writer taking them down at the moment, was written on the fourteenth day after the inquest. The second is, that the statement does not protess to give an account of all that occurred,

their trial. The third fact is, that the statement does not deny the assertion, though it distinctly mentions it, that the coroner, lifting up the deceased's head, said, " Ah, gentlemen, this is a sudden death; the man has died from a diseased heart, I've no doubt: there will be no occasion for a medical man." The fourth fact is, that none of the statements were written by the parties pretending to write them-incy WERE WRITTEN BY MR. WAKLEY'S CLURK! He dressed them up—carefully, ingeniously dressed them up-and it was from no deficiency of diplomatic finesse, that, after much difficulty, he got them signed. This is an important fact, on which too much stress cannot be laid. The jury could not be trusted to give their own story: and the wily clerk concocts a tale for them, which, when they were all assembled, at a publichouse, (at whose expense?) for the benefit of one of them (for the landlord was a juryman, they were, after some little troublesome scrupulosity, poor honest countrymen, diplomatized to sign! Do we find scintillations, here, of the "Scandalous trick subsequent to an inquest?" Do we discover, here, matter that tends in some little force "to drag the real culprit before the public?" "That a scandalous fraud has been committed, little doubt can be entertained by any impartial person!" We thank thee, Jew, for teaching us that

That the jury believed, or thought, Pledger to have died a natural death, we have no doubt. Had they known him to have been poisoned, we could not have given them the epithet, "silly." Searcely theirs; for, to whose the fault? do them justice, they did enquire from two of the three witnesses they were allowed to examine, and with a care that apparently amounted to strong, but illdirected suspiciousness, whether the deceased had said or done anything intimating the design of suicide. The brother, the third witness, is asserted-we know-by the clerk, to have been also asked a similar terested writing of a clerk—that clerk the the way public duties should be discharged? coroner's dependent-that the young man

course, to give nothing but what suited the awakened by the fact which came out, that defence of men who thought themselves on the deceased had been in low spirits for some time-asked whether the medical men should be called who saw the deceased; what (throwing the clerk's gloss aside) really said Mr. Wakley ? "Do you suspect, Sir, there's been anything wrong?" directly intimating to him, that, unless he were prepared to go so far in assuming the uugraeious character of an accuser, and in insulting the survivors living about him, by expressing a deliberate opinion against them, it was something very absurd to call m a medical man! Of course, the bullied country jury could not think of avowing an invidious suspicion, which ought not to have been asked from them or from any jury ;-especially could they not avow it, when they saw that it was directly against the inclinations of the great man, the M.P., who wanted to be back to town after holding some half-dozen other inquests, in time (it was a Tuesday afternoon) for his Parliamentary duties! Yet-silly, silly jury !- after being thus misled into making themselves a public laughing-stock, by their solemn declaration, after due enquiry, that a man, with an ounce of essential oil of almonds within him, died a natural death-they are palavered into making their appearance before the public, with their convicts' ropes placed by their own hands around their necks, and declaring themselves the idiotic culprits! Since the time that Reynard persuaded the goat to descend into the well, into which he had fallen, that, with the vantage ground of his horns, he might be enabled to spring out, we have verily heard of nothing resembling the juridical scapegoats of Hornsey-and their honourable friend, Mr. Wakley!

We have no further space except for the shortest fact . The medical man usually attending Mr. Pledger, we mean Mr. Baker - the medical man who saw him immediately after his death, we mean Mr. Hands—the sister-in-law who knew perfeetly his circumstances and character—the man who, with his son, first saw the body on the alarm of death, and who moved it from one room to the other—all these real witnesses who could have thrown light on question; but as he has admitted, in the the death, if any persons could, were trapresence of a gentleman connected with CALLED: and a frightened little girl, a temour office, that he knew of his brother porary nurse, and a boy brother, composed having deliberately spoken of suicide as a the corps of witnesses—the whole inquest desirable consummation to him, we must lasting but half an hour! Is this the way be pardoned for disbelieving, on the in- public money should be caused? Is this

But Mr. Wak'ey's has the daring-the unnecessarily and uselessly perjured him- flagitious impudence, in the hope of hiding self at the inquest. We say, the fault was his extraordinary delinquency as a Coroner, the coroner's, though the weakness and to charge without the least shadow of evisilliness was the jury's. He it was that dence, some unnamed party with the gave them the notion of there being a dis- abominable act of inserting poison in the eased heart-who told them that none of corpse. Marshall Hall's procedure to our the jury were free, more or less, from excellent reporter was morality itself to unsound hearts how admirably must they this. The servant girl affirms that the have harmonized with their chief! -nay, phial of the essential oil of almonds was that the very children of the landlord-juror placed by the deceased on the marble place were doubtless not more free than they of his back parlour—that its contents were, from disease of the heart! When were much lowered in the morning when and, being ex parte, may be presumed, of one of the jury-whose apprehensions were the deceased was found dead near it -

the autopsy was performed at the request of a surviving relative - four persons, three of them medical, were present during the whole time—and finally the Coroner's clerk, no later than Monday, the 27th inst., affirmed-after an enquiry, too-to a gentleman whom we can name, that " he had no doubt in the world that Pledger had poi-What means then this soned himself." foul-this hideous accusation? Is it part of "the scandalous trick subsequent to au inquest?" Does it afford us fresh aid " in dragging the REAL CULERIT before the The questions are serious to a public?" man who would value a character for something approaching to decent morality; we pray thee Mr. Wakley answer them if thou eanst?

REVIEW.

An Exposition of the Pathology and Treatment of Tubercular Phthisis. By Samuel Flood, M.R.C.S., &c. &c. London: 1842.

Turs is a rambling essay or memoir upon a very important subject, in which the author, with more boldness than prindence, forces upon the medical public, two novel ideas. The first is, that Phthisis is not a disease of the lungs, but of the digestive apparatus; and secondly, that consumption is not only curable, but that our author has discovered a specific for this formidable matady. In proof of his first assertion, the author endeavours to show that phthisis and scrofula are identical affections, and that the most prominent symptom of phthisis is emaciation. From these two positions the seat of the disease is deduced. Such questions are obviously not to be decided by reasoning, but observation; and we think, had the author ever made post-mortem examinations of phthisical subjects, we would have been spared the trouble of refuting such absurd paradoxes. Even admitting the identity of scrofula and phthisis, it does not follow that phthisis is a disease of the digestive organs; for scrofula may show itself in various and different situations, besides the digestive organs. Do we not see it sometimes confined to a bone, or bones; sometimes to an articulation; sometimes to lymphatic ganglia in the neck, in the chest, in the abdomen? &c.; or the scrofulous deposit may be chiefly, if not exclusively, confined to some one internal organ, as the lungs. Every one knows that in phthisis the lungs are the seat of the disease, and it appears to us as absurd to locate the disease in the abdomen, as it would be to aver that it is a disease of the glutens maximus muscle. We need not refer to the physical signs of phthisis as having a reference exclusively to the lungs, nor to the evidence of the fact which post-mortem examinations afford, for in our mind the conclusion is already established, and it would be a work of supererogation to refute what is so obviously erroneous. After death, although other organs are sometimes found affected, we have sufficient evidence that the cause of death exists in the lungs, and that the disease called phthisis has its seat exclusively in the pulmonary tissue. We regard, therefore, our author's views on this point, as perfectly chimerical, and his treatment of the mesenteric glands in this disease, as worse than foolish. Our author's treatment of phthisis, consists in generous dict the internal use of iodine and cantharides, and topical applications to the abdomen, such as blisters, iodine plasters, &c. We cannot speak favourably of the work; the style is faulty, itions."

the views of the pathology inculcated, crude, indigested, and contradictory; and his principles of treatment partial, defective, and calculated to mislead the young and inexperienced. We would recommend the author to cultivate his observing faculties, and leave reasoning and deduction, for which he is by nature incompetent, to others; and above all, we would be seech him never to write on any medical subject which he does not fully comprehend.

PHRENOLOGICAL SOCIETY.

The meeting on Monday the 20th ult. was numerously attended. Dr. Elliotson in the chair. Mr. Atkinson, F. G. S., read a paper on the late John Varley, the enithent painter; he described him to have been a man of wonderful genius and intellect, original in all his con-ceptions, grand in all his designs—an ardent admirer of nature and nature's works; he loved the sublime and beautiful, the cloud capt mountain, the lowly valley, the placid lake, the umbrageous wood "impervious to the sun;" these were his delight to view, and these he so inimitably transferred to canvas. In landscape painting he stands pre-eminent none have excelled him, few can equal him; he was the founder of this species of art in water colours. In manners he was mild, affable, benevolent, and communicative; his charity was as large as his expansive heart; he knew no distinct country or creed. " Friend to no sect, he took no private road, but looked through nature up to nature's God." As every mirror has its dark side, so has human nature its frailties. Varley's might have been called amiable, it was credulity; he believed nearly all he heardorread; hewasan astronomer, and deeply impressed with the truth of the occult science of astrology: he imagined the starry liest to possess an influence over the actions and feelings of men, and "that there were more things in heaven and earth than were dreamt off in our philosophy. Varley was wholly dovoid of worldly prudence, and was consequently always in difficulty. The east of his head was exhibited. The coronal region was large; the moral faculties highly developed, and the intellectual, to a high degree. Ideality his predominant sentiment, was strikingly large, also benevolence and constructiveness. Mr. Atkinson at the close of his address was much applauded. Dr. Elliotson said he wished to call the attention of the meeting to the report of the Hunterian Oration, which he had read in the Medical Times of the 18th inst. The Doctor said here was a gentleman addressing the first surgical college in the kingdom, and asserting that to Sir C. Bell belonged the honour of the greatest discovery made in the nervous system for 20 centuries. passage is as follows: "In a word there belongs to Bell the great discovery, the greatest in the physiology of the nervous system for 20 centuries -that distinct portions of that system are appropriated to the exercise of different Dr. E. in no way detracted from functions." the merit due to it; it was a discovery, and as such entitled to praise; but when compared with those of Gall it shrunk into insigniticance, "it was as a wart to ossa." What Gall years before discovered with respect to the brain, Bell applied to the excito-motor nerves. The former said that separate parts of the brain have distinct functions; the latter had found out after twenty centuries "that distinct portions of the nervous system are appropriated to the exercise of different tune-

WESTMINSTER HOSPITAL.

CLINIQUE OF MR. GUTHRIE ON SOME POINTS CON-NECTED WITH DISEASE OF THE URINARY ORGANS. Delivered on Saturday, 25th Lebinary, 1813.

The Clinique at this hospital on Saturday last embraced three important points of surgical practice connected with morbid states of the urinary organs:—the first the mode of introducing the catheter into the bladder: the second, the method of tunnelling obliterated portions of the weethra, and the third, that of crushing stones in the bladder, and extracting fragments of stone from the bladder and neither.

The first case introduced into the operating theatre, was that of a patient who was long supposed to be laboring under stone in the bladder, while no stone existed. Upon introducing the sound, a sensation was felt as if the instrument had struck upon a hard surface. This arose from a diseased condition of the bladder, but the kidnies were also seriously diseased, and the ease did not fall strictly within his province. Mr. Guthrie brought the patient before the students, more for the purpose of showing the mode of introducing the catheter, or bougie, in treating affections of the nrethra, than for any other purpose. Mr. Guthrie then took the eatheter into his hand, and exhibited the way of holding the instrument, and commencing the operation, and insisted upon the student carefully examining the structure of the urethra in all its relations, before he attempted to introduce a catheter into the bladder. Ho showed the method of introducing the instrument in succession through, 1st. the pendulous part of the urethra-2d, the perineal portion-ad, through the triangular ligament of the pubes - Ith, through the membranous part of the urethra-and 5th, through the prestate portion,-pointing out the peculiarities and difficulties of each subdivision of the urethra, and summed up the whole by some excellent practical proofs of the adroitness which practice alone can impart in the introduction of the instrument.

Mr. Guthrie's remarks upon the foregoing case were introductory to an interesting ease of stricture, which was next brought before the pupils. The case was that of a soldier admitted into the hospital about four months ago, with a stricture of eight years' standing. When the patient was received into the hospital, he was in a truly deplorable state. He could hardly pass one drop of urine, and the No. 1, or smallest bougie, could not be carried into the bladder. Upon examination, the urethra was found constricted, and nearly obliterated, to the extent of about two inches at the deepest part of the pendulous portion of the urethra. This contracted part of the tube was throughout the whole of its extent eautionsly transfixed by an instrument essentially consisting of a straight silver tube, which is carried down to the stricture, and of a lancet shaped stiletto, made to project from the tube, and open up the caual. After incising in this way the urethra, an ordinary sized bougie was immediately after carried through the stricture. Beyond the pendulous, and in the perineal portion of the urethra, anterior to the pubes, another stricture was found to oppose the transit of the bougie. This was also transfixed by the lancet-shaped stiletto. The strictures being tlms overcome, and the passage re-opened, a bougie was then carried with ease into the bladder. An untoward accident, which arose during the treatment, was next adverted to. The subsquent introduction of the bougie, which was necessary for effecting the cure, oceasioned so much irritation, that the case was retarded for some weeks, by the formation of

an abscess around the exterior of the contracted portion, which Mr. Guthrie compared to those abscesses, or blind pistule, which sometimes form around the rectum. By the regulated and daily introduction of the bougie, the canal has been gradually dilated till it can now let pass, as was shown, a No. 11 bongie, and in another month, Mr. Guthrie thinks that the largest sized hougie will easily pass, when the patient will be dismissed cured. In expatiating upon this case, Mr. Guthrie directed the attention of the pupils to the thinning of the corpus spungiosum, concomitant with stricture of the pendulous part of the penis, and to the thickening, or hypertrophid state of the parts surrounding strictures in the nonpendulons parts of the organ. The causes of these differences of result, Mr. Guthrie did not attempt to explain, but he considered the facts as established.

The third case brought before the pupils was one of no small interest. The young man had been operated upon for stone some months ago, by Mr. White, the senior surgeon of this hospital, and was dismissed apparently cured The patient returned, however, with a fragment of the stone that had been previously crushed by Mr. White, obstructing the urethra. As the symptoms were urgent, Mr. Guthrie, in the absence of Mr. White, picked out some of the smaller pieces from the urethra, and succeeded in pushing the largest fragment back into the bladder. Mr. Guthrie then entered into some explanations regarding the operation of lithutrity, and described the instrument he is in the habit of using. He first injects four or six ounces of water into the bladder-ear ries the crusher cautiously into the bladder,then separates the blades of the instrument. Mr. Guthrie never searches for the stones: he merely passes the instrument to the most depending part of the bladder, when the stone falls upon the instrument, and is seized. If the stone is very small, (smaller than a split pea,) it cannot be seized by the instrument. In this case, Mr. Guthrie recommends a dilata tion of the urethra, and the foreing of the stone, out with the nine, and related an interesting ease of a private patient of his own, who was eased in this way. The patient suffered much, and many unavailing attempts were made to seize the stone. Mr. Guthrie then dilated with bougies the urethra, and one day, during the evacuation of the bladder, a very small stone, consisting of an aggregation of acicular chrystals, was expelled, with an immediate and complete cessation of all the painful symptoms

ADVERTISEMENT.

(To t) - Editor of the Medical Line , and Gentlemen of the Medical Profession.)

Sir,—Permit me to offer you my thanks for the kind manner in which you were pleased to notice my new farinaceous preductions for infants and invalids, and allow me through the medium of your excellent and widely circulated journal, to present my warmest acknowledgments to the gentlemen of the medical profession generally, for their countenance, and particularly to thank those who have so kindly favoured me with similar testimonies. Tensting that the opinions so freely given will be kindly seconded by recommendations, in accordance with their recorded certificates.

I have the honour to be Sir, Your obliged and obed, servt. John Bright.

CURABILITY OF CONSUMPTION.

(Continued Is on page 519.) (To the Editor of the "Medical Times.")

Sin,-I now proceed briefly to notice the principal concomitant affections or complications of phthisis, over which measured mechanical respiration exercises a beneficial control. One of the more frequent and troublesome of these, is alceration of the larynx. The vicinity of the morbid action to the brain, determines the blood to that organ; and the obstacle to its return, presented by the peculiar stifling character of the cough, keep the patient in a constant state of excitement and irritability, equally distressing to himself and his attendants. The sense of constriction in the threat, dryness of the fances, dysphagia, rejection of the food through the nostrils, lancinating pains shooting in the direction of the ear, all conspire to torment the unhappy sufferer, and diminish the value of any addition to the term of his existence. It is astonishing how long this affection may protract life. I have known it to do so in some instances for five or six years; this is effected by the impeded expiration, consequent on tumefaction within the larvux and adjoining portion of the trachea, which renders the lungs voluminous. Thus, we may account for the small size of the cavities so commonly observed on dissection: traces of obliteration are also of frequent occurrence, indicating the repairs, nature was carrying forward by the aid of the obstruction.

M. Cruveilheir, in his "Anatomié Pathologique" records a case in point. He says:—" A labourer, aged 10, entered the Maison Royale de Santé, with all the symptoms of laryngeal phthisis. He had been seized with hoarseness about ten months previously to his entering. On examination, his lungs appeared healthy, with the exception of a dry and sonorous cavity in the summit of the right lung. The patient died, suffocated by the laryngood affection. On opening the body, the vast cavity in the summit of the right lung was perfeetly cicatrised." The affection of the throat, in this case, obstructed the expirations; the lungs, rendered voluminous by the detention of the air, brought the sides of the cavity into apposition, and cieatrization ensued. This was, however, but the substitution of one evil for another, equally, or, I might say, more dangerous, and certainly more distressing. So little do the lungs exhibit of the characteristics of disease, occasionally,—so masked are all phthisical signs-that the affection of the throat is often regarded as primitive, and hence we hear laryngeal phthisis sometimes mentioned as an idiopathic disease. In all cases supposed to be so, the lungs, on autopsy, will be found to reveal the unequivocal tokens of primitive pulmonary tubercularization, or the versed auscultator will have discovered it previously. of the tube has been found eminently serviceable in averting this complication, or modifying its character; it will rarely happen that prevention is not secured by its timely emylorment. Its power will be in proportion to the length of time intervening between the commencement of its use, and the period when, without it, in the course of nature, the laryngeal affection would have supervened. If other circumstances should not contraindicate-even after the supervention-it may be advantageously employed to relieve the difficulty of breathing present. All these desirable results are obtained without the drawback of any aggravation of the symptoms, danger, or pain.

Another most alarming complication is diarrhora. When it sets in, the patient's death-knell, in the great majority of case, begins to toll; the chances remaining of a lengthened respite are very few indeed, but even these are increased by the careful and judicious use of the respiratory tube. I recollect the case of a man, named Swedenburg, who was admitted into the Infirmary for Diseases of the Chest, in 1838, with every had symptom of consumption, and, among the rest, diarrhora. His lungs were exten ively diseased, yet he lived more than two years, during which, under this treatment, all the constitutional symptoms were greatly moderated, and existing cavities healed up. He died at last of diarrhora. I have already stated

that, in old catarrhal cases, tuberenlous diarrhola rarely indeed met with. Inhalation in the late stages produces a similar effect to catarrh: littl apprehension of diarrhera need be entertained, i its use has been previously practised for an reasonable period. Thus, it would appear, that may be employed to execute palliative and pro-phylactic, as well as curative, intentions. It mabe thrown out as a sheet-anchor, even at th eleventh hour. I am in possession of the name of a clergyman's daughter, who had been despaired o in phthisis, by several medical men, among whor was a physician some time retired from his con nexion with St. Bartholomew's Hospital, who ba been consulted, and yet she dishonoured the prognosis by surviving six years. As a dernie resort, she made trial of the inhaling apparatus for two or three months, during which a decide retrogression of all her bad symptoms was esta blished. Considering herself well, she left it of It is not improbable that, had she persevered ti her disease had been more completely brough under, she might, so far as it was concerned, hav been still alive. I have met, besides, with three other consumptive cases, despaired of by the sam physician, who did well under this treatmen Two of them are now, after the lapse of a fer years, alive, and in good health.

Pleuritie adhesions in by far the greater number of cases, are occasioned by irritation from the bereles in the subjacent tissue of the lungs. What ever expands the air cells, seems to take away the disposition to form pleurisy. In cases of asthm we find pleuritie adhesions of very rare occurrence except at the summits of the lungs; when myth, they may be often considered antecedent is origin to the latter disease. The lungs in this state afford the finest specimens of exemption from merbid pleuritie agglutinations, or thickening it is interesting to observe in those cases, where the do occur, how the air cells of the portions covere by healthy pleura are greatly dilated, hypertriphied, and as it were ready to burst their bonds. The respiratory tube by its expanding power in similar manner prevents these adhesions.

Its value in catarrh, which it supersedes as curative agent, must not be overlooked. By du exercise and expansion of the bronchial ramifica tions, it contributes to allay or indispose to, irrita bility of the lining membrane, and I have ofte heard patients state that after its use in the morn ing they have been better, and more freely able t bring up the accumulated phlegm. When con traction of the trachea exists, the pulmonar exertion required for the expulsion of the air b the pressure from below upwards, dilates the great air passage, and counteracts the tendency to spas-modic action and superficial ulceration or thicken ing. Hence it may be advantageously resorted to a few months before the approach of winter, e before removing to cold humid climates, particular larly by persons who are very susceptible of th repetitions of this affection from exposure to th ordinary exciting causes. It contributes to preven and remove congestion of the mucous membrane by the healthy cutienlar action consequent upo improved sanguification. As a prophylactic it ma also be ordered when the constitution is scrotulous it alters the habit, and renders not only the lungs but also all the other viscera less susceptible of tuberenious deposit. Hence we might deduce th propriety of its general adoption by the member of those families in which the hereditary taint i suspected, or already begins to develope itself.

In cases of empyona its employment is calculate to add to the chances of recovery by improving the condition of the lung on the side opposite to that affected, and producing slight expansion of the diseased lung even in the face of the accumulate thid, it timely resorted to be fore the conversion of the investing plenua into tibro-cartilaginous tissue. The disease is kept from advancing: the empyonatous matter thus left to itself may, under tayour ble circumstances, determine to the surface, subjoin two cases that have come within my knowledge illustrative of this result.

than two years, during which, under this treatment, all the constitutional symptoms were greatly moderated, and existing cavities healed up. He died at last of diarrhoa. I have already stated

Briaton Hill, March, 3, 1843

yema of the left pleural sac, and his general health vas less impaired than might have been expected rom the nature of his malady. The condition of he chest, and all the symptoms were further im-proved by the use, for several months, of the resoring tube. A tumour at length formed which soon began to fluctuate, and matter pointed ex-ernally. It was opened by a surgeon in Liverbool, and the contents of the pleural sac allowed to escape. After some short time he improved sur-risingly, became robust, and considered himself perfectly restored, with the exception of a slight ozing discharge, which rarely amounted to a wineplass full in a day. During this progressive state, ie was in the habit of practising the mechanical espiration, but on his health appearing to him so very satisfactory it was laid a ble. He now married, and mixed in general society, visited and requented parties as a person in perfect health vould do. A few months subsequent to his marriage, fresh liquefactions in his left lung brought about a return of alarming symptoms, which becoming gradually worse, he came to town once nore for advice. His ease being considered incresting he was shewn by Dr. Ramadge to several of the gentlemen attending the infirmary. He survived about six months, and was visited towards the close by Mr. King, an intelligent pracitioner in the Hackney Road, in conjunction with Dr. Ramadge. He acknowledged that he had neglected the directions sent to him in Liverpool, he principal of which were, to persevere in the ise of the tube, and avoid exposure to the night ir. Had be carefully observed these directions, ie might have recovered instead of sinking as he lid under the disease. His well marked improvenent in the beginning when he strictly acted upon hem countenances this supposition. His death ook place about eighteen months after the operaion, and was attributable to exhaustion from fresh iquefaction and its sequel.c. The discharge nev a entirely ceased, but did not increase during his last attack.

The other case was that of a young lady living ut Gravescud, a friend of a very intelligent pracitioner, Mr. Beale of Bedford Square, Stephey. She had been confined to her bed for some weeks, constantly lying on the left side. Dr. Ramadge visited her at the request of this practitioner, and pronounced it to be a case of empyema supervening on consumption. The constitutional symptoms were then absent, but had been exceedingly well lisplayed, as appeared from enquiry, before the occurrence of effusion. It is worthy of note here, that when empyema takes place in phthisis, the constitutional symptoms become equivocal,—are other very slightly marked, or nearly absent. Leeches were recommended to be applied to the side, followed by blisters, with a view to lessen the vascular action of the scrous membrane and promote absorption. It is unnecessary to enter into the case more minutely than to state that the mechanical treatment was adopted to obliterate phthisical exeavations, and produce a general pulmonary expansion. After the lapse of about two months the matter pointed; an opening was made by a surgeon, and was followed by a purulent discharge, which continued for some weeks. Meanwhile, she persevered, as directed, in the practice of inhaling, her symptoms being at the same time watched by her usual medical attendant. A few months afterwards, being perfectly restored, she came to town to present herself to Dr. Ramadge. More than two years have since clapsed, and she still remains without any pectoral disorder, and in a very sati:factory state of general health,

This instrument was originally prohibited in affections of the heart generally, but further experience has proved that it may be reserved to here with advantage, when the lungs are not congested, but simply voluminous in consequence of mucous bronchid intumescence or tracheal spasm. It has been been found useful in heart affections symptomatic of chlorosis, and in most of the nervous complaints of females attended with dilatation. Its beneficial effects on the sanguification are exemplified by altering the complexion from a pule to a healthy sanguineous tint, and on venous congestion by removing sub-

lividity of the lips and turgescence of the veins of the neck.

I might enter into various minutia under each separate head above glanced at, as the pathological materials and illustrative facts at my command are abundant; but en high has been said to shew that Thave not been an inattentive observer of phthisical phenomena, and am not chargeable with excessive eredulity in assenting to the value of mechanical pulmonary expansion, or ill-directed zeal in my endeayours to make proselytes to doctrines I believe to be important and incapable of successful contradiction. I feel convinced I shall succeed to the extent of mducing many to give them a fair, patient, and judicion ly conducted trial, with a view to fulfil either That which pulliative or enrative indications. ourts investigation and experiment from scientific men, must possess some of the attributes which command professional attention and esteem. The more this question is sifted will its merits be appreciated.

----- "Valet hee sub luce videri, Judicis argutum quae non formidat arumen." Discipulus.

[The literary merit of these letters make them attractive—but their insertion—interfering with courses of lectures we are pledged to give, the correspondence must here terminate.—Eo

PERISCOPE OF THE WEEK.

CAPACITY OF THE LUNGS.—M. Bourgery states that in examining the relation existing between the structure and functional canacity of the lungs in both sexes, and at various periods of life; experiments were made with a hydro-pnenmatic apparatus on 70 persons (50 male, 20 female,) from which the following results were deduced: -The respiratory act, cateris paribus, is more forcible in proportion to the youth and slender make of the individual. No condition of strength or health is capable of supplying the place of youth. Respiration io the male is double the volume of that of the female for the same age. The maximum for both sexes occurs at the age of thirty years. In a wellformed person of that age forcible respiration represents the quantity of 2.50 to 4.30 littes for the male; and of 1.10 to 2.20 litres for the female; in the boy of fifteen years 2. litres; and in the old man of eighty 1.35 litres.* The volume of air required for ordinary respiration gradually increases with age. The ratios between the ages of seven, fifteen, twenty, and eighty, are geometric, and represented by the numbers 1, 2, 4, and 8. The well-formed adult respires habitually the quadruple of the young child, and the double of the female or child of fifteen years, while the old person respires the double of the adult. This progressive increase, or necessity for a greater volume of air, expresses the dimini-hed power of the lung as an organ of humatosis; hence, the latter decreases from infancy to old age, in proportion to the following numbers: -1, $\frac{1}{2}$, $\frac{1}{8}$, and $\frac{1}{8}$. In forced respiration the permeability of the lung to air presents two periods; one ascending from infancy to thirty years, the other descending from thirty to old age. The former increases in a regular ratio 1, 2, and 3, from seven to tifteen and thirty years; the latter decreases from 3 to 24 between thirty and fifty years; and from 21 to 11 between fifty and eighty years of age. - Taken on the whole, the respiration is trebled within the space of twentythree years in youth, and increases by 1-9th for each year. After manhood it diminishes by 2-5ths in twenty years, or by 1 00oth for each year. From fifty to sixty years it decreases by 1-5th in ten years, or 1-50th for each year. And in old age, from sixty to eighty, it diminishes by

* The litre is 1.760 of an English pint.

nearly 1 or 1-20th for each year. This gradual decline of the respiratory power must contribute in great measure to the gradual extinction of the powers of life as old age advances.—This latter proposition is further confirmed by the tact that the ratio of ordinary to forcible inspiration diminishes as the age advances. At seven years of age this ratio is as 1 to 12; at fifteen, as 1 to 10; at twenty, as 1 to 9; at twenty-five and thirty, as I to 6; at sixty, as 1 to 3; at eighty years of age, as 1 to 1 or 1. Thus, the young man has in reserve for violent exertion an immense respiratory faculty, while the aged person is quickly "winded."—The respiratory faculty is gradually worn out by the laceration of the capillary aerian and sangnineous canals; this laceration occurs, in a greater or lesser degree, in all powerful respiratory efforts. It begins at an early period, and increases gradually to old age, as a simple consequence of repetition of the respiratory act, It is increased by all diseases of the lungs. In its most aggravated form this state of the lung causes a circulation of imperfectly oxygenated blood, and reduces the decrepid octogenarian to the locular lung and imperfect respiration of the reptile.

Administration of Muriate of Mor-PHINE BY THE ENDERMIC METHOD IN NEU-RALGIA AND SCIATICA.-M. Rongier, of Lyons, speaks in the highest terms of the beneficial effects derived from this remedial agent in the above complaints. He commences by denuding the skin over the course of the affected nerve of its epidermis. For this purpose he employs an iron, heated in boiling water, which is to be left for an instant on the surface and then quickly withdrawn; the part afterwards being gently rubbed with a piece of iinen rag. This mode of proceeding is preferable to ordinary blisters, inasmuch as it causes less pain, never fails in producing its effect, is more prompt, and produces less suppuration, thus favouring the absorption of the medicine. The hydrochlorate, which, according to M. Rougier, is the most soluble salt of morphine, is then applied upon the surface, having previously moistened it with a drop of water. M. Rougier usually commences with a grain and a half, which he increases by a grain, every second day, according to the suscertibility of the patient. He states that minute doses have little or no effect, and that it is necessary to saturate the constitution, as it were, before any good effect will be induced. The symptoms announcing this condition are, headache, somnolency, nausea with or without vomiting, dysuria, heat of skin, perspiration, itching of the skin, &c. M. Rongier states that he has sometimes carried the dose as high as 12 grains, in which case he creates a greater number of absorbent surfaces, so as to correspond in some measure to the quantity of medicine to be introduced into the economy. In ordinary cases, or where the disease is recent or simple, the pain is generally checked at the second or third application; but in disease of long standing, the cure is generally more talious. M. Rougier states that he has applied from 30 to 50 blisters successively in the same patient. The surface is to be dressed but once a day, a plan which thus allows the individual. at the expiration of a few hours, to go about his usual business. The pain once removed, the remedy is to be continued for a few days in decreasing doses. A sense of weakness and prickling are frequently felt for a long time along the course of the nerve, owing both to the long continued disease, as well as the action of the morphine, which has in some measure paralysed the sensibility of the nerve.

Anscess in the Uterine Parietes com-MUNICATING WITH THE RECTUM. - A lady who enjoyed good health up to her thirty-seventh year, when she married, was soon afterwards attacked with acute deep-seated pain in the hypogastric region, radiating to all parts of the pelvis, and increased by micturition and defecation. It was accompanied by the usual symptoms of inflammation of the uterus. Although the attack was relieved by the treatment adopted, it was not removed, and when an examination per vaginam was instituted, the nterus was found lower in the vagina than usual, with morbid enlargement more especially of the posterior paries, and the os and cervix uteri were painful to the touch and tumid. Between three and four months after the invasion of the malady, about half an ounce of pns suddenly escaped from the rectum, with immediate relief. Persistent diarrhea with discharge of more or less purulent matter now set in, the patient observing that when the pus was not discharged as freely as usual the local pain was aggravated. All this while menstruation was very irregular, and attended with much pain in the loins and discharge of coagula, Profuse menorrhagia next set in, the uterine pain became exceedingly severe, attended with a relapse of the previous symptoms, to which was superadded a neuralgic condition of the genital organs, the slightest pressure upon which produced extreme suffering. The patient gradually sunk exhausted.—A post-mortem examination was made twenty-four hours after death. On laying open the abdomen, the omentum, small intestines, and all the pelvic viscera were found agglomerated together by peritoneal adhesions of old date. On raising the items it was seen to be firmly attached by its upper and posterior portion to the reconni; it presented an irregular form, having the fundus enlarged to about thrice its natural size. A longitudinal section showed the enlargement to have been produced by an abscess seated in the substance of the wall of the fundus uteri, the eavity of which contained about an ounce of dark thick pas: the walls of the abscess varied in thickness from one to three-fourths of an inch, the thinnest portion being nearest to the cavity of the interus. A communication by means of a short sinus could be traced passing from the cavity of the abscess to the adhering portion of the rectum, and opening into that intestine by an aperture sufficiently large to admit of the passage of a thick probe, and evidently of old formation. No communication existed between the uterine cavity and that of the absects. The os and cervix nteri did not present any evidence of malignar t disease. The Fallopian tubes and ovaries were adherent to the interus, and could with difficulty be distinguished. The uterns had never been impregnated.

RESEARCHES ON ELECTRO-PUNCTURE. M. Schuster gives the following conclusions as the result of his experience on this subject. 1. Galvanic electricity, introduced by means of aempuncture into the substance of the affected tissues, is the most powerful, as well as the most harmless, stimulant and resolvent agent that we possess, 2. The resolvent action of electricity is exercised with so much more energy and promptitude, as it is seconded by a more marked causticity and power of decomposition. 3. The action of electricity upon living tissues has only its full effect so far as we introduce, by means of the metallic points or needles, this fluid into the substance of the parts, the structure or vitality of which is to be modified, and upon using due care, on the one hand, to proportion the intensity of the currents to that of the effects to be produced, and on Mercula and the produced and on Mercula and the proportion the intensity of the currents to Manufacture and trade in Mercula and the first and the produced and on Mercula and the produced and on Manufacture, and trade in Mercula Plant and the Manufacture and trade in Mercula Plant and the Manufacture and

the other, to alternate, where necessary, the action of a continuous current with that of an interrupted or broken current. 4. Electropuncture will generally be successful in those affections, in which we wish to stimu late the diminished or destroyed sensibility or contractility, to attack the enervated or perverted conditions of vitality, to cause the reabsorption, or evacuation, of cliused or accumulated matters, to decompose or destroy morbid productions, to obtain adhesions, and lastly, to coagulate the blood.

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List of Gentlemen admitted Members on

Friday, Feb. 24, 1843;—
A. P. Hamilton, C. P. Ring, W. Cautrell,
J. S. Kirkman, T. H. Cooper, J. Currie,
G. B. Irving, J. C. Robinson, J. J. Hely,
E. C. Johnson, J. N. Morse, H. H. Price,

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TESTIMONIALS.

oom the "Medico-Chicurgical Review" for January, edited by F Jeogs Johnson, M.D. Physican Extraordinary to his late Majes Kang Walliam the Foorth —

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Sir —In reply to your note, I her leave to state that I have for mar-cure past, been in the lidat of recommending the Ceylon Moss, is parted by com, to all my convalence tratems; and a creat maj ity of them have preferred it to any other, either vegetable or suim

S. Nichorson, Surgeon, General Hospital.

To Mr. Presite.

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Surzeon Officialized Apothecary, H. B. C. Dispensity, Dec. H. 1836.

H. C. Dispensity, Dec. H. 1836.

Liave much place are giving to-timory in behalf of Mr. Previte Cyrlon Wess. Has in admirable article of fiood, piculiarly well pred to the dide as stomach of an invalid. Edit and cass direction, it is ut the same time very nutrifitions far suprise under varying and can be commend it with confidence.

(Seniel) W. H. Goody V. M. D. Chlotta, December 18, 1836.

Calcotta, December 18, 1836.

For William, Meckalt offee.

Fort William, Recember 13, 182

Doar Sir--Three examined and tried the Ceybon Moss, and an opinion that it is a valuable article of six diet. The more so in case where animal rely cannot be obtained without delay, and when it not so fifting for a weak state of the stomach as that of the Ceybons, Were truly yours.

[Prior RICK CORBAN, Garrivon SHEMOOD T - Mr. Previte.]

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(Neurita, General Hopita). Diven by S. RALELGA, Surveon. (These certificate in the offer in type of tarished by me in 188 and published in the "Transactions of the Roy d Menkor Botanics Society". Vol. 1. Part by p. 181.

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Girffyin, -- It gives me great place on in motiving you of the beneficial results derived from you. Eatest Apparatus, where excess other mode of relief had been applied in van. After submittles compaphatus, I applied it with great success. The patient, who to the space of two veas had been contocled by her tomp, as now enabled to go about with the greatest of easy in department, and can can, with much go about with the greatest of easy in department, and can can, with much confidence, that it fully answers they move it was calended for, and gives creat credit to the inventors, and superactes, every other mode of relief and cure for Probagan Chemical Confidence, Telegran Brathers, The Flum Brathers, The Flum Brathers, The Flum Brathers, The Order on Midweley.

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Sa Philip Crampton.

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THE MEDICAL TIMES.

A Journal of English and Foreign Medicine and Medical Affairs,

No. 181. Vol. VII.

LONDON, SATURDAY, MARCH 11, 1843.

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ON THE IMPROVEMENTS IN MATERIA MEDICA AND PHARMACY DURING THE PAST YEAR.

By John Foote, Esq., Fellow of the Royal College of Surgeous in London, Fellow and Secretary of the Royal Medico-Boinnical Society, Corresponding Member of the Pharmaceutical Society of Portugal, and of the Societe Industricle at Ingers.

OPIUM

Is our most valued agent in the treatment of disease, and so freely has it been used, and so largely have its therapeutic powers been made available by the medical practitioner, that it may be thought impossible to discover another ailment in which it may be found of service. Nevertheless, several medical journals at home and on the continent have recently contained papers, and details of cases of strangulated hernia, which resisted the usual measures, including the taxis, but were readily reduced when the internal administration of opium or morphia, had been had recourse to, and the sufferer was brought fully under its influence; large doses of the anodyne were required. Mr. Lyell, of Newburgh, says, the rule should be to employ the morphia in half grain hourly or half hourly doses, until the patient is fairly narcotised. He gave his patient three grains of opium, and four and a half grains of the muriate of morphia, before he was able to reduce the rupture, and he ascertained by direct experiment that the drug he employed was really good. A similar result followed the use of belladonna injections in the hands of Dr. F. Fischer of Tambach. His cases, two in number, are recorded in Schmidt's Jahrbucher. In one instance, symptoms of narcotism were induced. Dr. Vigier, a physician at Amfreville, speaks of a case of strangulated inguinal hernia of the right side, in which failing reduction by manipulations, he employed ether irrigations, with the effect of lessening the pain and swelling, and inducing sleep. A second application a few hours afterwards neted again as an anodyne, and when the patient awoke, the runture was reduced. Dr. Vigier states, that he did not have recourse to the taxis, after he had tried the ether, of which about 40 scruples were used altogether.

From the increase of intercourse between European medical men and the inhabitants of the Celestial Empire, we have been enabled to gather much interesting information with respect to the effects produced by the baneful practice of opium smoking, which appears to be almost wholly confined to the male sex. Mr. Smith states, that in Penang the opium smokers are the Chinese, the Malays, and a few of other nations, chiefly the native Portuguese. It is calculated that 10 per cent. of the Chinese, two and a half of the Malays, and about one per cent, of other natives are addicted to this vice. The drug is not used as imported, but is subjected, first to a process of solution in soft water; then of evaporation, re-solution, and re-evaporation, to free it from impurities. The watery extract thus prepared is called chandoo, and is twice the strength of crude opium. The dregs of the chandoo when smoked, are collected and made into pills for the poorer classes; these are called tye-chandoo. The Benares opium is chiefly used, but the Patna is preferred, because it has a finer flavour, is stronger, and its effects are more lasting. The smoker, when he commences his daily dose, is at first rendered loquacious and animated, but as the opium takes effect, the conversation drops, and is succeeded by repeated bursts of loud laughter; the next phase presents a vacancy of countenance with pallor and shrinking of the features, followed by deep sleep, lasting from half an hour to three or four. In this state the pulse is slower, softer, and smaller than before the debauch. The effects of this poison on the system are very sevive, and it appears that the habit once fixed, is very rarely overcome-loss of the mental faculties.

lassitude, and early impotence are produced by it. If habitual smokers are totally and suddenly deprived of their accustomed stimulus, death speedily follows in the train of a series of horrible symptoms. The only mode to avoid a fatal result, and break the chain of diseased habit, appears to be the use, in gradually diminishing doses, of a tineture made of tye chandoo with rice spirit. This preparation is only one-fourth the strength of the chandoo, Dr. M'Pherson, in his recent work on China, gives a nearly similar account of this habit. In the Montana district, in Peru, a practice prevails, which is thus described by Dr. Smith:—It bears some resemblance to the vice of which I have just spoken, but it is not so pernicions. The coca-leaf, when moderately used, comforts the stomach of the Indian, as good tea does that of the European, and acts in a peculiarly cordial manner. It enables those who use it in moderation, to endure a great deal of cold, wet, general fatigue, and even fasting, to a surprising degree, with apparent impunity. But though it in this way fortifies and supports nervous and muscular energy, and keeps up an agreeable exhilaration of spirits, when taken in excess, as is done by many of the coca-gatherers, who repair to the Montana to include in it freely, it is said to excite a species of reverie, which may be looked upon as a variety of mania. Those who are thus affected are always chewing the leaves, and retire to the solitude of the thicket, finding their joy in flying from the presence of their fellow-men, and indulging in silent contemplation, or rather in vague associations and trains of ideas, without exercising any rational control of thought, or feeling in interest in the ordinary concerns and duties of life. The remedy for this state is simply to return into society, and abandon the abuse of the coca-leaf.

INDIAN HEMP.

While thus calling attention to the effects of anodynes, it may be as well to mention that Mr. Ley has found the resinous extract of the Indian hemp a very powerful remedy in allaying muscular spasm and irritation. He gave it in doses of from one to three grains. Dr. O'Shaughnessy calls it an anti-convulsive remedy of the greatest value. Mr. Ley has found it, in full doses, produce a singular sensetion of terror or fright, instead of the pleasant feeling of inebriation, of the most cheerful kind, described by authors

The Indian hemp (Cannabis Indica) appears to he identical, in all respects, with the European variety, (Cannabis Sativa) with the single exception, that the former plant contains a certain amount of resin, on which its narcotic and anti-convulsive powers depend, and which seems to be almost totally absent in the European plant. Mr. Ley stated at a recent meeting of the Royal Medico-Botanical Society, that he had collected some in the Regent's Park, and had obtained from it a tiucture, and an alcholic extract; but found it contained only about one-tenth the quantity of resin yielded by the Indian plant, and, as he expected, he had found it comparatively inert. The hemp in question was gathered very late in the season, and was perhaps too old. The resin of the hemp is soluble in nlcohol and other, partially soluble in alcaline, insoluble in acid solutions; when pure, of a blackish grey color-hard at 90 deg. -softens at higher temperatures, and fuses readily-soluble in the fixed, and in several volatile oils. Its odour is fragrant and narcotic, taste slightly warm, bitterish, and acrid. The Indian plant exhales a powerful narcotic odour, and the branches are glutinous to the touch with the resinous secretion, which is collected when the seed is formed, (as the plant is then in its greatest perfection,) and is sold under the name of churus, or the shoots from which

an intoxicating agent, from the farthermost confines of India to Algiers. If it be swallowed, almost invariably its inebriation is of the most cheerful kind, causing the persons to sing and dance, to cut food with great relish, and to seek aphrodisiae enjoyment. The intoxication lasts about three hours, when sleep follows. No nausea, nor sickness of the stomach supervenes, nor are the bowels at all affected: next day, there is slight giddiness, and much vascularity of the eyes, but no other symptom worth recording. Dr. O'Shaughnessy stated, with regard to the character of the intoxication produced by the churus, that apathy, or insonciance, was as often present as the feelings of pleasurable excitement; but he could not recollect a single instance in which that of alarm or terror had been occasioned by it. The effects of the resin are much modified in this country, and much less marked, possibly from the length of the voyage rendering the article deteriorated in value. The resinous extract prepared at Calcutta from the fresh plant, is the most valuable of all the preparations; next to that ranks the extract made from the gunjah immediately after it has been brought to this country, while a similar preparation made from the plant after it has been a length of time in England, is comparatively inert. this circumstance we may conclude, that some portion of the virtues of hemp depends on the essential oil it contains. Dr. O'Shanghnessy says, that the gunjah yields to alcohol twenty per cent, of resinous extract, composed of the resin, (churus,) and green coloring matter (chlorophylle.) Distilled with a large quantity of water or spirit, traces of essential oil pass over, and the distilled liquor has the powerful narcotic odour of the plant,

Mr. Ley, in his essay, read before the Royal Medico-Botanical Society, draws a comparison between the effects produced by opium and those caused by the cannabis indica, the result of which induces him to give the preference to the latter, its influence being exerted more kindly and gratefully on the system. It has proved of service in cholera and rheumatism, but it is in spasmodic and con-vulsive diseases that it is most eminently useful, In termus it has been the means of cure in the majority of cases, and it has relieved much of the severity in hydrophobia, although it did not prevent the fatal termination. It is useful in chorea, spasmodic astluma, and delirium tremens, and generally wherever opium is indicated. In India. it has produced eatalepsy. Mr. Ley considers further, that it will prove a direct antidote, the first of its class, to the strynchia poisons, in which opinion he is confirmed by Dr. O'Shaughnessy, who experimented with it on dogs. Having ascertained by direct experiment the poisonous dose of the nux vomica bark on animals, he administered it to 6 dogs, following it in half an hour with a full dose of the resin. The dogs who did not get the resin died with all the symptoms characteristic of poisoning by nux vomica, and the others all escaped. Dr. O'Shaughnessy observes further, that a blister to the nape of the neck, leeches to the temple, and nauseating doses of tartar emetic, with soline purgatives, have rapidly dispelled the symptoms of an over-dose of the drug. Makrizi recommends oxymel and acids as its antidotes, and next to these, emetics, cold bathing, and sleep.

BELLADONNA.

at higher temperatures, and fuses readily—soluble in the fixed, and in several volatile oils. Its odour is fragrant and narcotic, taste slightly worm, bitterish, and aerid. The Indian plant exhales are powerful narcotic odour, and the branches are glutinous to the touch with the resinous secretion, which is collected when the seed is formed, (as the plant is then in its greatest perfection,) and is sold under the name of charus, or the shoots from which the resin has not been collected, are cut, dried, and sold as gunjah. The charus is in general use as

in cases of sciatica and epilepsy. Dr. Debreynes who has published a long communication upon the treatment of epilepsy, in the Bulletin General de Therapeutique, says he has tried it in about two hundred cases, and there was searcely one in which its use was not attended with advantageous results. It is, however, by no means a specific. Mr. Bulley, of Reading, has used the extract dissolved in water, in irrigation in cases of inflamed eyes, and he speaks favourably of its employment. When the liquid is first thrown on the eyes, the lids must be closed, but the patient soon gets accustomed to the shock, and the continued stream may afterwards be thrown upon the eye itself, without producing any disagreeable sensation. His essay is illustrated with cases.

IODINE

and its preparations may fairly claim the next place in our notice, from the very important therapentic services they render to suffering humanity. In the various forms of scrofula, the iodide of potassium has long been found serviceable; more recently-it has seenred its reputation in the treatment of subacute and chronic rheumatism, periostitis, and secondary syphilis; and has still more lately been used with advantage in cases of dropsy after scarlatina, and in schirrns uteri. By some medical men it has been given in very large doses, Dr. Bonyer, of Marennes, has raised the quantity gradually, until he has given two drachms in the course of the day. He adds a small quantity of opium to prevent its injurious influence on the glandular system. Dr. Langevin, of Havre, has detailed several singular and interesting cases of secondary and tertiary syphilis, remarkable for the large quantities of the iodide he administered, and the rapidity with which he effected cures, even in cases of very long standing. He commenced with forty grains daily, and doubled and trebled the dose very soon, so that in the course of a fortnight after the commencement of the treatment, he gave eight scruples in the four-and-twenty hours. Chomel adds his testimony in favour of the remedy, but the doses he prescribed were more moderate. (Bulletin general de Therapeutique.) Dr. Ross, of Cambersmere, Sutherlandshire, has employed iedine and its compounds very freely as external applications. The tineture of iodine, undiluted, he has found serviceable in cases of obstinate ulcers, with large flabby granulations, and in ulcers of the tonsils and fauces, whether specific or non-specific. In these last named cases it is best used as a gargle. He does not speak very highly of its application over enlarged and indolent glands and buboes. He supports Mr. Martin's recommendation of the diluted tincture as an injection in hydrocele, but condemns its use in phthisis and bronchitis by inhalation, from having witnessed fearful bronchial irritation produced by it. In tinea, porrigo, impetigo, eczema, &c., he has found it very useful, after the hair has been cut close, and the head cleaned of the scabs. Dr. Graves, speaking of this application of iodine, says it will not do to apply it as is generally done with a camel's hair brush, for it must be strongly rubbed into each spot, for which purpose a small bit of sponge, covered with fine linen, and tied to the end of a quill, or slender stick, should be employed; the application should not be repeated more than once a week. Mr. Wilson recommends a liniment made with the iodide of sulphur and olive oil in cases of porrigo, in which he is snpported by Dr. Davidson, of Glasgow. The iodide of zine is advised as an application to the torsils when enlarged, and the iodide of arsenic Dr. Roshas seen used in a case of lupus, with great success; he adds, there is not any cause to fear absorption of the arsenie. The use of the iodine injection has been extended by Velpean to the treatment of serous cysts, which he penetrates and evacuates the contents, and then throws in a solution of iodine, which is retained for a few seconds. and afterwards withdrawn. Slight inflammation comes on in a few days, and a care is effected in five or six weeks. Very little pain is caused by

THE HYDERODATE OF ABSENIC AND MERCURY. Mr. Donovan, of Dublin, has introduced a

ment of lupus, lepra, psoriasis, pytyriasis, sycosis, porrigo, impetigo, venereal eruptions, ephelis, &c. which has been tried very extensively by the profession, and has been reported on very favourably. Cases of inveterate psoriasis, in which arsenie, the iodide of potassium, sarsaparilla, mercurials, guaiacum, &c., had been directed unavailingly, vielded speedily under the administration of the iodide of arsenic and mercury. In the first case reported, that of a child nine years old, within ten days after the commencement of its use, the eruption began rapidly to decline upon the trunk, and the thick scales to loosen upon the extremities. In five weeks time all traces of the eruption, which was of two years' duration, had disappeared from the surface of the trunk, and only a few patches remained on the extremities, The mixture disagreeing now, its use was intermitted for a time, and the child sent into the country. On her return its exhibition was resumed, and in three weeks the patient was entirely cured. She was seen eight months afterwards, and had not had a relapse. This case, which was under the care of Dr. Osbrey, is one of particular interest, because the disease was of a very aggravated nature, and of considerable duration. child had been previously under the care of several practitioners in London, but had not received any relief. The case is one of value in another respect, as it gives a warning against the unguarded and too protracted use of the salt, as emaciation, with loss of appetite and other symptoms, presented themselves while it was given, and ceased on its discontinuance. When first administered, it generally produces nausea and sickness. Dr. Osbrey has used it also in eases of button scurvy, syphilis, pytyriasis, and lichen urticatus. Messrs. Carmichael, Colles, Cusack, Sir H. Marsh, Dr. Graves, and Dr. Croker have also tried it in the cases for which it is recommended, and speak very highly of it. One drachm measure of the liquor of hydriodate of arsenic and merenry consists of one drachm of distilled water, one-eighth of a grain of arsenious acid, one-fourth of a grain of peroxide of mercury, and three-fourths of a grain of iodine in the state of hydriodic acid. It occasionally produces slight ptyalism, an effect not very astonishing when it is borne in mind that each of its three elements may cause that result. It some-times at first causes disturbance of the stomach and bowels, and when, by continuance of its use. its effects are accumulated, it often affects the head. The dose of the mixture should be from fifteen minims to half a drachm, twice a day. Larger doses have been given, but it is not advisable. It cannot be too much impressed on prescribers that thay incur great risk of destroying its powers by mixing it with other articles, in-tended to modify its effects. It ought not to be conjoined with opium, nor with the salts of morphia. When opintes are necessary, they should not be administered at the same time with the arsenico-mercurial liquor, the best menstruum for which will be distilled water. COD LIVER OIL.

The oils obtained from the livers of the cod and skate have been advised medicinally in scrofula, &c., and their virtues appear depend on the iodine they contain. — The following method of ascertaining the presence of iodine in cod liver oil, is given in the J urnal de Chimie Medicale. Four onnees at least of the oil to be examined are to be treated with an excess of liquor potasse, moderately diluted. This is afterwards to be heated until the whole of the liquid is evaporated, care being taken that the temperature is not raised to the boiling point. Collect the residue of this evaporation, throw it, a small quantity at a time, into a large crucible, and proceed to carbonize it, taking the precaution, towards the end of the operation, to place a wellfitted cover over the crucible, so as to prevent the volatilization of the combination of iodine, which may be formed. The carbonized residue is now to be boiled several times with alcohol, after which, these solutions are to be mixed together, and evaporated nearly to devuess. Dissolve this product in a small quantity of distilled water, add a

starch, with one drop of solution of chloride of lime. In this manner the least trace of iodine may be discovered, and it will be found that the pure oil of cod's liver always contains a minute

THE IODURET OF POTASSIUM.

M. Ricord, in a second communication on the effects produced by the ioduret of potassium, points out the pathogenic results from its administration in certain persons. He has found it cause eruptions of a psydraceous character, somewhat resembling the pustules of acre, but not confined to the places where that disease is located, the eruption occasionally simulating eczema, herpes, purpurea hæmorrhagica, rupia, or the varieties of erythema ; gastralgia, ptyalism, dinresis, catarrhoredematous ophthalmia, coryza, bronchitis, iodic intoxication, and blenorrhagia, have all been respectively induced by the use of the ioduret of potassium. Ricord observes, that for the removal of any of these affections thus induced, all that is required is to suspend the medicine for a time, or diminish the dose. He has as yet only met with six cases in which he was obliged finally to abandon the use of the remedy.

CLINKERS Mr. Conway Edwards, of Batheaston, has published an interesting communication on the medicinal use of clinkers, the refuse of the blacksmiths' forge. It differs from common ashes and coke in its greater specific gravity, component parts, and external appearance. It appears to possess tonic, stimulant, and anthelmintic properties, and is of essential service in chlorotic and dyspeptic cases. Its use is contra-indicated where an inflammatory diathesis prevails. The quantity of metal which clinkers contain, varies considerably: the best is obtained from a blacksmith's forge, and the most ponderous, darkest, and most metallic in appearance, should be selected. The light slate-coloured clinker is inert. It is prepared for medicinal use by pulverizing it, and mixing it with treacle and honey: to every eight ounces of this mass, which should be of the consistence of stiff paste, half an onnce of magnesia, and the same quantity of ginger, must be added. The dose is a tea-spoonful twice a-day for three days; then an interval of three days, and a repetition of the medicine for the same period. The first dose is apt to cause a sensation of a great weight in the epigastric region, with a feeling of burning, followed by sickness and fainting, which is relieved by eructation of flatus. Some complain of pains in the limbs, and particularly the joints; others, of tightness across the forehead, with giddiness; while all are troubled with heat, dryness of the mouth, and great thirst. At the second dose, the symptoms are moderated; and the third is generally taken with impunity. After it has been persevered in for some time, sensations of a different character arise. These are, hunger, and a feeling of health and energy, to which perhaps, the patient has been a stranger for years. Then the complexion, if pale commonly receives a ruddy tint, and the muscular fibre becomes firm and enlarges. After the first dose, the fæces are like pitch-the urine generally pale and large in quantity-the bowels, if previously costive, become regular in their action-the pulse gets full, and the skin pleasantly

CHALYBEATE SALTS.

Mr. Bullock has lately introduced the citrate. ammonio-citrate, and lactate of iron, chalybeate salts, which were first prepared by M. Beral, as useful, more scientific, and more pleasing prepara-tions of iron than those in ordinary use. They have been employed by many members of the profession, who speak highly of them in those cases where a chalybeate is required.

PHLORIDZINE AND CINCHOVINE.

By the aid of chemistry we have obtained two vegetable alcaloids, considered to possess tonic an anti-febrifuge properties. One of these, phlorid-zine, is obtained from the bark of the root of the apple and wild-cherry trees, as follows:-The sufficient to cover them, for half an hour. This is poured off, and the same quantity is again used mixture, holding in solution a compound salt, the hydriodate of arsenic, and mercury in the treat-bonate of sulphur, or what is better, a little fresh the end of six hours they deposit the phloridzing

in the form of a deep red velvety-looking matter. M. Lebaudey, the Editor of the Journal de Connaissawes Medico-Chirm givales, says, its efficacy is so decided, that we cannot hesitate to class it with the most powerful febrifuges; and it has this advantage over quina, that it never induces gastralgia. The other alcaloid is the cinchovine, which has been discovered by M. Manzini, in the quinquina jacn of commerce, the white bark of Condamine, the cinchona ovata of Peru. Its preparation is precisely the same as that of quina. It exists in the form of prismatic, clongated, white, and inodorous crystals, having a bitter taste which is not at first perceptible, as is is not very soluble in water. It presents the characteristics of an alcaloid: it forms salts with dilute acids, which are very soluble in alcohol, and is precipitated from its solution by alcalies and their carbonates, the ioduret of potassium, the bi-chloride of platina, the chloruret of gold, and other metallic chlorurets. Ammonia also causes a precipitation; but if the volatile alcali be at all in excess, a portion of the einchoving is re-dissolved. Its atomic composition is—earbon 26, hydrogen 51, nitrogen 4, oxygen 8. (Rerue Medicale.)

OHINA. Dr. Lugeol, of the Hayannah, has signalized an interesting fact occurring from the internal exhibition of large doses of quina; it has in many cases caused deafness, which has continued for two or three days. His statement has been confirmed by other physicians, and a case of permanent deafness has never been induced by it, sulphate has been recently tried to a very great extent, and in enormous doses in Paris in the treatment of acute rheumatism and of typhoid fever. Several cases are recorded where the patients recovered; but others again have been published, from which it is clear that the unfortunate sufferers died from the poisonous effects of the overdose of quina, of quininism in fact. Dr. Meirien of Saint Gilles, recommends as a substitute for the simple sulphate of quinine in the treatment of disease, a mixture containing that salt in solution, and charged with an excess of carbonic acid gas. He considers that the quina is rendered more soluble, acts with greater energy, and in a smaller dose. (Bulletin de Therapeutique) Other compounds of the alcaloid of the cinchona have been introduced into notice by Prince Lucien Bonaparte, under the title of the lactate and valerianate, and are said to have been found serviceable in practice, but cannot come into general use on account of their high price.

ARTEMESIA ABSINTBIUM.

Dr. II. Coulton has strongly recommended certain preparations of the artemesia absinthium, the plant being a grateful bitter and tonic. It has had numerous medicinal properties attributed to it, the chief of which are antiseptic, anthelmintic, deobstruent, tonic and stomachic. An infusion made with half a drachm of the dried herb (freed from the stalk) and ten ounces of boiling water, allowed to stand for an hour, will produce an infusion of sufficient strength: the dose, an onnce and a half three times a day. The tineture is superior to any other preparation, and is made in the following manner: Take two ounces of the dried herbs. free from the stalk, and 16 ounces of rectified spirits; maccrate 12 days, and strain. This has a most beautiful green colour, but fades on keeping, and it possesses the full aroma of the plant, and the bitter flavour in a high degree; 10 or 15 minims will impart a strong flavour to two ounces of water, and form a good stomachie draught. Wormwood is an aromatic tonic, well suited to various cases of chronic disease, in which it is desirable to support the tone of the stomach. Where debility of the digestive organs has been the chief feature of the disease, its adaptation has been evident, from the happy results that have followed its administration.

NITRATE OF SILVER.

A great objection to the use of the nitrate of silver internally, for any length of time, has been the discolouration of the skin which is in general caused by it, and which has hitherto unfortunately proved to be permanent. Dr. Patterson, of the Rathkeale Infirmary, bas made this a

the stomach undecomposed, but is inclined to believe that ere it enters that viscus, it is changed into the chloride; and the discolouration he attributes to the decomposition of the chloride of silver circulating in the cutaucous tissue through the chemical action of the sun's light, and the deposition there of its metallic basis in a state of extreme disaggregation. All persons are not subject to this accident, for the influence of the sun's rays can only be effective in those cases where the cutis is more than ordinarily vascular, and is clothed with transparent cuticle. To avoid and is clothed with transparent enticle. this discolouration, and yet receive the full advantage of the tonic powers of the silver, Dr. Patterson advises the employment of the ioduret, which is uninfluenced by the sun-light. It is easily prepared, by adding to a solution of the nitrate, in distilled water, a solution of hydriodate of potash in atomic proportions. If 164 grains, or one proportional of feduret of potassium, be dissolved in two or three ounces of distilled water, and 172 grains, or one proportional of nitrate of the oxide of silver, be dissolved in two or three other ounces of distilled water -on mixing the solutions, 234 grains, or one proportional of ioduret of silver. are precipitated. The whole is then to be thrown on a filter, and the joduret of silver should be washed with repeated effusions of rain or distilled water, and then dried in the sun or before a fire. If the ioduret of silver, so formed, be in the slightest degree contaminated with any nitrate remaining undecomposed, it will be liable to discolouration. It is, therefore, best to use the ioduret of potassium in very slight excess, and, for facility of practice, equal weights of each salt may be employed. Induret of silver, thus prepared, is a soft, rich looking, granular powder, having the beautiful pale greenish yellow color of the canary bird. It has neither taste nor smell, and is insoluble in the state of the silver with a silver of the silver. water; it resists the action of the diluted nitrie, hydrochloric, and acetic acids, of the alcaline subcarbonates, and of hydrochlorate of soda; it is very sparingly soluble in solution of hydriodate of potash. Dr. Patterson has found the stain caused on the skin by the external application of nitrate of silver removed by a solution of the hydriodate of potash, and has further ascertained, that nascent iodine will discharge the writing of indelible marking ink, made with the nitrate, and thence eoneludes, somewhat too hastily, that the discoloration from the deposition of the silver in the skin may be removed by the internal and external employment of suitable preparations of iodine, forgetting the impossibility of applying his remedies directly to the rete mucosum, where the oxide or metallic silver is deposited, and also not taking into account, that although the iodine may influence the stains caused by the nitrate, it does not follow that a similar effect will be produced on the reduced metal.

STYPTIC WATER OF BROCCHIERL

The styptic water of brocchieri, which is said to be an excellent application in cases of harmorrhage, has been imitated by Dr. Pereira, of Bourdeaux, who distills a water from the fresh wood of the pine, possessing all the virtues of the water of brocchieri. It is prepared as follows :- Ten proportions of the fresh wood of the pine, sawn into small thin pieces, and bruised in an iron mortar, are put into a flask with twenty proportions of water, and macerated for twelve hours; the liquid is then to be distilled until ten proportions have passed over. The liquid thus obtained is to be put into a larger vessel, and allowed to remain twenty-four hours, when the essential oil which floats on the top is to be removed. When this has been done, the vessel is to be well shaken, and the styptic water is prepared. It is somewhat opaque, and has a smell of turpentine. It ought to be well shaken before it is used .— (Journal de Medecine et de Chirurgie Prutique). M. Dumas, of Montpellier, has published several cases of uterine hæmorrhage occurring during pregnancy, which he has arrested by the internal exhibition of tannin, either in the form of pill, draught, or injection. (I urval de Medicine et Chirurgie Pratique) and Dr. Lüdiche mentions a case where it evidently acted

matico has been found a useful application. Dr. Monro, of Dundee, has employed it in three cases, The feeling produced by the leaf, when applied to the bleeding surface, is one of increased heat and throbbing, continuing for about five minutes, and then ceasing. He adds that he canadoubt but that the unities has most decided stypt. qualities, and may become a very valuable addition to our materia medica. The tineture of catechy spoken of as a valuable remedy in the sore nipple of puerperal females, when the inflammatory symptoms are abated. Much contradictory evi dence has been offered on the subject, but it appears from the great mass of testimony that it is most useful in sloughing from want of tone. Fissures in and about the rectum have been cured in many instances by the use of enemata, containing the extract of rhatany. Protracted or obstinate cases have been cured in a comparatively speaking very short time by this remedy .- (Bulletin general de Therapentique.) Dr. Burdach of Luckan describes a case where crossote acted as an astringent and styptic, in repressing spongy granulations, and acresting harmorrhage with the most beneficial effects, (Medicinische Zeitung.) It has also been recommended in sea sickness and in neuralgia. It is used in the latter disease in the form of an ointment composed of 3j. creosote to 5; of lard. This is to be applied three times a day to the part affected.

SECALE CORNUTUM,

M. Payan, a celebrated surgeon at Aix, bas employed the secale cornutum in the treatment of paraplegia, dependant on defective action of the spinal cord, without alteration in its structure. He has published three cases in the Journal de Pharmacie, illustrative of its efficacy. He believes the sceale cornutum acts primarily and especially on the spinal cord. Mr. Quekett attributes the presence of the spur in rye to a parasitic fungus, and he thinks that the absorption of the sporules of the fungus by the fibres of the root of the germinating grain, will be found to be the true cause of this singular production, and when they arrive at the grain, they convert it into the body known as the ergot. M. Bonjean de Chambery has discovered two principles in the secale, the one a yellowish acrid oil, soluble in cold ether and in boiling alcohol, which is highly poisonous, and the other an aqueous extract, of a brown colour, thick consistence, and musty smell, which possesses antihomorrhagic properties. He has also found that ergot gathered the first day of its formation has not the poisonous properties it possesses on the 6th day. and further that when exposed to boiling heat, or the process of fermentation is excited, it loses its properties.—(Journal de Chimie Medicale.) Mr. Gore, of Limerick, recommends an aromatic ammoniacal tineture as the best mode of administering the ergot in cases of inertia uteri. Dr. Wright has used the oil obtained by means of other in the doso of from twenty to fifty drops combined with a little aromatic tincture, and he states that he has found it particularly efficacious in all cases in which the spur itself would have been serviceable. He considers it more certain and rapid in its effects, more easy of administration, and less disagreeable than either the infusion or the substance. He has used it externally in eases of rheumatism, he recommends it as a substitute for creosote in the treatment of tooth-ache, and has employed it with success in epistaxis and other harmorrhages. M. Blane, of Aix-les-Bains, has used the aqueous extract in a case of abundant and obstinate has morrhage with excellent effect; he gave from ten grains to a scruple in the course of the day. M. Bonjean de Chambery thinks it applicable in cases of haemorrhage whether simple or puerperal-(Journal de Chimie Medicale.) A singular case is recorded in the supplementary number of the Gaz. des Hopitaux for October last. An unmarried woman, 40 years of age, was affected with cancer nteri, attended with hiemorrhage, to arrest which her medical attendant prescribed the sceale in the form of pills, giving from thirty to forty grains in the twenty four hours. These pills were taken for several successive days, their use intermitted when the bemorrhage diminished, and resumed on its subject of inquiry, and has published his experiments. He does not believe the nitrate reaches

as an anti-lote to strychnia.—(Mediciniscler Zeitung).—Another styptic, the South American plant

four drachms had been taken; the patient was

then seized with violent vomiting, and the whole of the vaginal mucous membrane appeared of a slaty, grey colour, and exhaling a characteristic The membrane came away in shreds at the and of about eight days, but when the cure had proceeded thus far, a sudden attack of hiemorrhage carried off the patient.

BENZOIC ACIR.

Mr. Alexander Ure, in a communication on gouty concretions, published in the last volume but one of The Medico-Chirurgical Transactions, states that the anost unequivocal proofs have been afforded him of the efficacy of benzoic acid in correcting and removing certain disordered states of the urine in individuals prone to attacks of gravel. Dr. Walker of Huddersfield published an account of the advantage he had derived from the use of benzoic acid, combined with balsam of copaiba, in certain affections of the urinary organs. These united statements induced Mr. Soden, of Bath, to give it a trial in certain cases of irritable bladder which came under his notice, and he has every reason to be satisfied with the result. He details five cases, one courring in private practice, and the rest in the hospital, in all of which almost immediate benefit followed. He prescribed it, combined with the balsam of copaiba, according to Dr. Walker's plan, but he says it is very desirable to ascertain the effect of the benzoic acid alone in similar cases, more particularly as the balsam is apt to disagree with delicate stomachs. This he promises to do in future cases. The most remarkable circumstance connected with the exhibition of this compound medicine is, its decided efficacy in diminishing, and in some instances, completely suppressing the muco-purulent deposition in the prime, which is so prominent a symptom in most cases of affections of the bladder. An important fact is stated by Mr. A. Ure, that during the administration of benzoic acid, the uric acid disappears from the urine, its place being supplied by hippuric acid, into which, he thinks, it is converted by the action of the benzoic acid. Mr. Garrod confirms the discovery of the hippuric acid in the urine, after the administration of benzoic acid; but he adds, that he has also found a trace of uric acid. M. Bouchardat, the principal pharmacien at the Hotel Dien, however, gave a patient, whose prine deposited aric acid freely, a scruple of benzoic acid in can sucrée; the sole effect of which was, that the uric acid was rendered soluble, but not changed into hippuric acid. The experiment was repeated three successive days, each time with the same result,—(Journal des Cannaissances Medicales.)

Mr. Garrod has suggested a very ingenious theory for explaining the manner in which the bensoic acid is converted into the hippuric. According to this theory one equivalent of lactate of urea, minus two equivalents of water, give the requisite elements for the conversion of two equivalents of benzoic acid into two equivalents of hip-puric acid. The following formula will express this more clearly.

Benzoie acid (2 equiv.) . . C 28 H.10 O.6 Lactate of urea (1 equiv.) . C. 8 H. 8 O.6 N.2

II.18 O.12 N.2 Minus II. 2 O. 2.2 eqv.

C.36 H.16 O.10 N.2

= Hippuric acid (2 equiv.) C.36 H.16 O.10 N 2 This explanation, however, Mr. Ure does not admit, and he mentions, to disprove it, that having swallowed a scruple of cinnamic acid, the presence of the hippuric acid in the urine resulted, and if we apply the arithmetical formula to this fact, substituting the cinnamic for the benzoic acid, we cheain a result wholly incompatible with this hypothesis; for two equivalents of ciunamic acid + one of lactate of urea, - two of water will give C.44 H.20 O.10 N.2, while two equivalents of hipparic acid give C.36 H.16 O10 N.2, leaving C.8 II.4 to be accounted for. Mr. Ure, as I have already said, is of opinion that the uric acid, and not the benzoic, is converted into the hippuric, h t as early as 1831 Professor Wöhler believed that benzoic acid, duving digestion, was probably

since confirmed by the experiments of M. Keller, who, having taken thirty-two grains of benzoic acid, obtained a proportionate quantity of hippuric acid from the urine, the fluid also containing its chief ingredients, urea and uric acid, apparently in the same proportion as in the normal urine.

The hippuric acid existed in the fluid in combination with a base. M. Keller, speaking of the application of the benzoic acid as a remedy for the gouty and calculous concretions of uric acid concludes as a consequence of his experiments, that Mr. Ure was too hasty in advising it, and he adds that as his observations were made on a gouty patient, it may be supposed that the urine, even without the internal use of benzoic acid, would have been found not to contain any nrie acid. The question, however, is still sub judice. (Annalen der Chemie und Pharmacie.) While on this subject I may mention that, to obtain benzoic acid very pure, and free from empyreumatic smell. M. Jaussens directs one part of the benzoic acid of commerce to be mixed with eight parts of distilled water, an excess of solution of ammonia added, and the solution of benzoate of ammonia thus formed, to be treated with purified animal charcoal. He then orders the solution to be filtered, and decomposed with hydrochloric acid, when the benzoic acid will be separated in beautifully white flakes. These flakes, thrown on to a filter, and washed several times with distilled water, are afterwards to be drained, and then dissolved in a sufficient quantity of alcohol. The alcoholic solution is to be filtered, and then diluted with distilled water, so as to precipitate the benzoic acid, which is but sparingly soluble in that liquid. By this means, the essential oil, to the presence of which in the ordinary flowers of benzoin, their peculiar smell is due, is retained in solution in the alcoholic liquor. It only remains to crystallize or sublime the precipitated acid, to obtain it in a state of great purity and beauty. (Archives de Medicine Belges).

CUBEBS.

On giving cubebs internally, we remark that shortly after its reception in the stomach, the urine becomes impregnated with a very marked odour of the volatile oil, showing that the essential oil contained in the piper passes rapidly through the digestive tube into the urine. The knowledge of this fact led M. Piorry to think that this medicine acted locally in the treatment of gonorrhea, by exercising through the medium of the urine a topical action upon the canal, and that consequently the best mode of administering the cubebs will be that which keeps the urine constantly charged therewith. Acting upon this opinion, M. Piorry gives his patients a bolus containing a seruple of cubebs every hour, or about an ounce in the course of the day. He has thus cured several cases in four or five days, and in one instance, where the complaint was of two months' standing, it was removed in forty-eight hours. The plan pursued for women consists in throwing an injection, made by infusing half an ounce of cubebs in a pint of water, into the vagina every hour,

Two very interesting cases of poisoning by cubebs, one of which terminated fatally, have been recently placed on record. They occurred at Valparaiso, and it seems that the patients in both cases, after taking cubebs for some time, changed their druggists, and obtained the drug from another party, both sending to the same house. The dose taken was balf an onnee at bed time, and the next day they were found in a state of complete as-phyxia. The symptoms presented in the case that terminated fatally were as follows:—the body in a state of supination; all the senses extinguished, without hearing, speech, or movement; the eyelids fallen, and when raised, the eyes look cloudy and fixed; the pupils dilated; extremities flexible; heat natural and equally diffused; face red; pulse slow, feeble, and very irregular, respiration hardly perceptible. On examination of the body after death, the viscera were found congested with black fluid blood, the entire venous system being quite gorged therewith; nowhere was there found any red or coagulated blood. The only explanation that can be given of such an occurrence. at benzoic acid, during digestion, was probably is that some poison was mixed with the cubebs, banged into hippuric, and his opinion has been but it is said that they have been examined by

two pharmacentical chemists, who could not detect anything deleterions.

GUAJUN BALSAM.

Dr.O'Shaughnessy, a gentleman of high chemical knowledge, to whom was cutrusted the editing the Bengal Dispensatory, has introduced to our notice some indigenous remedies as substitutes for drugs in general use, which are only to be obtained from foreign countries. Among these is the gurjun balsam, the essential oil of which has been found to be nearly equal to the balsam of copaiba in the treatment of gonorrhea. Some obstinate cases of chronic gonorrhea and gleet, which had long resisted copaiba and cubebs, have been cured by this remedy. The balsam itself varies in consistence from that of thick honey to a light oily liquid. As found in the bazaar, it generally occurs as a brown oily, semi-transparent liquid, possessing a sp. grav. 0,962. It is totally insoluble in water, freely in warm alcohol, and with difficulty in other. By distillation, from thirty-five to forty parts per hundred of essential oil are observed. tained, and a thick resin remains in the retort. The pure essential oil is transparent, and nearly colourless, of sp. grav. 0,934: it is soluble in alcohol, ether, naphtha, and the essential and fixed oils. It dissolves caontchouc, copal, vateria resin, and solid gluten. Its savour is aerid, sweetish, and heavy, and its odour closely resembles that of the essential oil of copaiba. It is administered in the dose of 10 to 30 drops, three or more times in the day. It generally eauses a sensation of warmth at the epigastrium, eructations, and sometimes slight purging, and it com-municates a strong smell of turpentine to the nrine, which it increases remarkably in quantity.

STORAX. In France purified storax has been again tried on the plan of L'Heritier, as a substitute for co-paiba. M. Lepage, of Gisors, recommends the following plan for purifying the storax. Liquid storax is insoluble in cold, but soluble in boiling alcohol. By introducing it into a retort with from two to two and a half parts of alcohol at 34 deg. and heating the mixture in the sand-bath until it boils, a turbed solution will be obtained, which, filtered rapidly, will deposit on cooling, a greenish fluid resin, almost transparent, and of a very powerful odour. If the operation be carried on speedily, and the liquid be divided so as to be filtered through different apparatus at the same time, the only residuum in the filter will be impurities without any resin; but if any turbid solution remain, it may be heated again with a little alcohol, and filtered while boiling. When the resin has been entirely separated, which requires about 12 hours, the alcohol may be recovered by distillation, and the storax must be heated in a sandbath, to drive off the alcohol which may be combined with it. Thus purified, storax presents itself in the form of a greenish semi-transparent resin, of an agreeable odour, and the consistence of turpentine; it is soluble in ether in almost any proportion; alcohol at 40 deg, dissolves it rapidly, but it is little soluble in alcohol at 33 deg .: its alcoholie solution reddens test paper. It must be preserved in well stoppered bottles, kept full as much as possible, without which a superficial erystalline layer forms on the surface, the thickness of which augments gradually. For internal administration, it may be mixed with calcined magnesia and made into pills, or dissolved in alcohol, and then made into syrup with sugar and gum arabic, or else given in the form of mixture, rabbed down with the yolk of eggs .- (Journal de Chemie Medicale).

CRINUM ASIATICEM.

As a substitute for ipecacuanha, the fresh bulbs of the crimum asiaticum, a plant common in Bengal, and often cultivated in the gardens, have been found serviceable; indeed, it is said to be the only indigenous emetic plant met with abundantly, which does not produce griping, purging, or other distressing symptoms. From two to four drachms of the fresh root, bruised into a paste, and squeezed, will furnish a juice, which becomes emetic after a few minutes, and in smaller doses nanscant and diapheretic. The dried saced roots are efficient, but the dose must be doubled; the extract, whether aqueous or alchoholic, is uncertain in its setion. The powdered seeds of the ipomæa exculen in the dose of from 30 to 40 grains, act as a quick, safe, and pleasant cathartic. The alcoholic extract, which consists of resin and oil, is deep brown, ductile, of excellent pillular consistence, and keeps for several months. In ten grain doses it produces the effects of jalap with certainty and speed; the taste is scarcely perceptible.—(Bengal Disnusation).

0X:GALL.

Ox-gall has been introduced by Dr. Clay, the eminent surgeon of Manchester, as a va-Inable aperient, acting without causing any uneasiness, and giving a free and full pulpy motion. He thinks it directly dissolves the hardened faces, and by that action alone renders them easier of propulsion, while, by the addition of bile, the constipation is directly overcome, and by charging the system with an extra quantity of healthy bilious secretion, its recurrence is prevented, giving time for improving the secreting powers of the liver, by other remedial measures. When it is necessary to employ opinm, and it is wished to avoid the peculiar tendency of the drug to constipate the bowels, the effect is obtained by combining the inspissated ox-gall with it, which, at the same time, in no way impedes the action of the opium. The gall bladder of a moderately sized ox will afford as much extract as will make 100 pills of four grains each. It is an article both cheap and easy to procure, and deserves to be generally tried.

TALLICOONAH OIL.

Mr. Clarke the senior assistant surgeon to the colony of Sierra Leone, has published a communication on the Tallicoonah or Kenduh oil, which is used by the liberated Africans as an authelmintic and cathartic. The best specimens are liquid, but it is more generally found concrete. The dose is from one to two onnees, thrown up as an enema. In over-doses, it produces the most violent hypercatharsis, cold sweats, and vomiting, succeeded by collapse; and, if remedial means are not promptly employed, even by death. Mr. Clarke says it is injurious in persons of a weak labit of body: but, to others, he can confidently recommend it as a safe and powerful anthelmintic.

BISULPHURET OF CARBON.

The bisulphuret of carbon has been employed in the treatment of diseases of the eye, by Dr. Turnbull. He says it is so volatile that the application of it to the eye, when the bottle is held in a warm hand for a few seconds, is as much as can be borne, in consequence of the intense pricking heat and flow of tears it occasions. He, therefore, directs the patient to close the eyelids during its use, deriving, he says, the same beneficial effect to the eye, without inconvenience to the patient. It generally contracts the pupil, and very seldom dilates it. He has used it in onlarged, indurated, lymphatic glands, and in deafness depending on a want of nervous energy, and deficiency of wax. The value of this remedy remains, however, to be ascertained, for, unfortunately, the anthority on which it is brought forward is so slight, the reasoning so inconsequent, and the communication itself so imperfect in its details, that no reliance can be placed on the statement.

PRUSSIC ACID.

The vapour of prussic acid has been recommended by the same person, for the treatment of certain diseases of the eye, among which staphyloma has been especially particularized, without regard to the obvious fact, that as it consists essentially in a change of structure, it is physically impossible to effect a cure by any remedies, so as to restore the organ to its primitive condition. The statements that were made in recommending a remedy for such a purpose, would serve only to excite the ridicule of the profession, were they not promulgated by the non-medical portion of the press, which has unfortunately given them an injurious notoriety.

NEW REMFIDIES FOR SKIN DISEASES.

I cannot conclude this summary without noticing

cases. In two—one of psoriasis gyrata, and the other of lepra vulgaris—it failed. The remaining twelve were cured. Two were instances of lepra vulgaris the others of psoriasis. The remedy was applied in the form of olutineut, made with two scruples of naphthaline to thirty of lard. When applied too strong, it causes a burning heat, which is soon renoved by baths and poultices. It is apt to cause crysipelas, if not carefully watched. (Bulletin Generale de Therapeutique.)

Compounds of charcoal and potass, and of soot and potass, with or without sulphur, were introduced above two years since by Dr. Polya, under the barbarons, but significant, names of anthrokokali and fuligokali. He says, he has tried them with great success in cases of dartres, scrofula, chronic rheumatism, rheumatic enlargements of the joints, gonty concretions, and hydrarthosis. He administers two grains three or four times a day, mixed with liquorice powder, or the carbonate of magnesia. M. Gibert found them most useful as external applications. He tried them in eighty cases, all of which improved under the treatment, and several were cured. They possess discutient, detersive, and slightly stimulant properties.—
(Gazette des Hospitanx.)

The chloride of zinc, introduced by M. Canquoin, and afterwards brought before the medical profession in England by Dr. Riofirey and Mr. Ure, has been extensively tried by Dr. Byron, of the County of Meath Infirmary, in cases of lipus exidens, or cutaneous cancer. He prefers it to any other remedy but applies it differently to M. Canquoin, who directed it to be made into a paste with flour, lime, or some other substance. Dr. Byron uses it in substance directly, because, 1st., it is at once, and in the full enjoyment of its escharotic powers, brought into immediate contact with the diseased surface; 2nd, its re-application is regulated by existing circumstances; and, 3rd, no parts are subjected to its use, but those which seem to require it. Its power in speedily removing the painful corroding sensation experienced in the site of the ulcer is very remarkable. The sloughing condition of the sore also is soon changed into a more healthy state, and florid firm granulations spring up under its use. The pain occasioned by its application is exceedingly severe, and all the symptoms produced by it should be allowed to pass by, before it is re-applied. Some precau-tion is necessary in using this escharotic to the skin of the head and face in young subjects. for whom it should be employed in a diluted state

RECENT DISCOVERIES IN SCIENCE.

VENTILATION OF HOUSES.

Mr. A. Liddell, of Glasgow, read to the British Association, a paper on the Ventilation of Honses, which consists in drawing off the foul air from each room by a pipe leading to the chimney of a steam-engine, which has been attended with the most beneficial results as regards the health of the inmates, and particularly by a great diminution in the number of fever cases. The plan has been tried in the Glasgow Fever Hospital, in which the beds for fever patients, &e., were fitted up with the tubes for carrying away noxious ellluvia. A similar plan for the ventilation of ships and steamers has been introduced by Dr. Reid, by leading tubes from the berths into a stove on deck, or in steamers, into the chimney. Mr. Liddell stated that the expense for a house of 60,000 cubic feet was only 40 lbs. of coal in twenty-four hours. Sir-John Robison observed, that it was highly satisfactory to find sound principles in regard to ventilation making their way among st the people of this country; but it was at the same time to be regretted that ineffective plans should be reso ted to, when the very best plans had been many years before the public. The mode of ventilating the Dothy Infirmary devised by

DR. PAYERNE'S SECRET.

The Editor of the Mechanic's Magazine observes, "It is only to take down with you something that will absorb the carbonic acid gas as fast as you generate it, and something else (with a lucifer match or two to heat it,) from which you may set free oxygen enough to keep you alive. Doubless, these are the main conditions of the experiment—and there are several well-known substances which do possess these two requisites. Pure potassa, for example, will absorb nearly half its weight, of carbonic acid gas; and chlorate of potass gives out, when heated, 39:15 parts per 100 of oxygen."

THE BUDE LIGHT IN MANCHESTER.

The Bazaar at Deansgate, Manchester, has lately been illuminated with Mr. Goldsworthy Gurney's patent Bude Light. The shop is 1280 feet in length and 48 feet wide, and contained formerly no fewer than 73 gas-lights, (12 of them argand burners), which have been displaced by four Bude Lights. Not only is this new light more intense and beautiful than that of ordinary gas, but it is so pure and white that it does not east a false glare on colours. Thus, by it greens may be distinguished from blues at a considerable distance; and any small print can be more readily read by the Bude Light at a distance, than by the common gas light placed just above it. Each of the lights proceeds from three concentric rings of tubing, with numerous perforations, in which is burnt the gas supplied from the Manchester gas works; Mr. Gurney's patent consisting in an apparatus, attached to the meter, for purifying the gas by passing it through a chemical mixture; and iron tubing being substituted for that of lead. The consumption of the purified gas by the large centre light in the baznar is 80 cubic feet per hour; each of the smaller ones consumes 45 enbic feet in the same time. -Abridged from the Shrewsbury Chronicle. THE BOCCIES LIGHT.

This invention, named after the patentee, Gottlieb Boccius, was first exhibited opposite Northumberland House, in the Strand, when its brilliancy excited considerable interest as to

the means of its production.

In the specification, this new light is described as "certain improvements in the com-bustion of gas." The gas is supplied from a number of concentric rings, perforated with a vast number of small holes on their upper surfaces; that is, precisely the plan adopted by Mr. Gurney, in his Bude Light. Instead, however, of one chimney, as usual, Mr. Boccius applies, above the jet-holes of the burners, two or more concentric chimneys, or cylinders, in addition to and within the usual chimney of glass. The body of the burners may be of any suitable metal: but, for the upper surface, through which the jet-holes are pierced, the patentee uses the German silver soldered into it, "on account of the high temperature required for its fusion."-In constructing burners of two or more concentric rings, the patentee places the inner ring at a certain height above the outer one, or that next to it; thus to provide for the greater equality of the height of the several cylinders of flame in such burners, so that they shall terminate as exactly as possible at one and the same level, and all enter the central chimney altogether. He finds by this arrangement that the economy or luminous effect arising from the combustion of a given quantity of gas, is much increased; an effect which he attributes in great measure to the circum tance that nearly equal luminosity is obtained in the flames from each

lame, should be such that its top is just received within the lower edge of the innermost eentral chimney. "When this is the ease the combustion will be found very perfect, and the light brilliantly white. No carbon will be de-posited within any of the chimneys, and the light will be perfectly steady; the lower edge of the central chimneys defining the upper part of the light, so that the jagged or irregular edges and flickering so impleasant to the eye in common gas-burners, does not exist, but the light appears of a permanent form, as a truncated section of a luminous cone.

The mcrit of this light has been much questioned. The Editor of the Mechanics Magazine observes: "Its novelty is of a strange sort: -whereas it has been generally considered advisable that the climmey of a lamp should east as little shadow as possible, the second chimney of the Boccius lamp is made of solid metal, and casts a darker and desper shadow than any we ever saw. Our present impression of this new wonder of the day is—that what is good in it is not new, and what is new is not good."-Dr. Ure, too, has pronounced the Boccius Light to to be a palpable imitation of the Bude Light.

THE NEW TRENCH LIGHT.

A French chemist of note has patented this improvement, both in France and England, through M. Charlien, of Paris. Its main feature (which forms the subject of the latter part of the patent) consists in affixing to the centre of the burner an upright stem, or one stem to each hole of the burner. The liquid is conducted up to the burner by cotton yarn, and the flame keeps the stem hot; thus the liquid. as it comes up towards the burner, is volatilized, and the vapour to be consumed passes through the holes in the burner in a similar manner to gas. To light these burners, a hoop, surrounded with cotton or other fibrous substance, and provided with a stem, is employed. The hoop is dipped into some of the liquid and ignited, and then passed down over the burner below the upper part of the cotton yarn; by this means, vapour is quickly produced in the burner, and passing through the holes in the same, becomes ignited; the hoop is then removed, and the heat of the flame maintains the requisite supply of vapour.

This light combines all the advantages of

gas, and also those of oil or tallow; for while, like the former, a constant and brilliant light is produced, and all difficulty and trouble of cleaning and trimming lamps are avoided, so, at the same time, all the advantages of portability and smallness of compass of the latter are retained. But one great feature of its superiority over both consists in an almost entire absence of smoke.

The liquid consists chiefly in distilling a mixture of some spirit, (naptha, for instance) and of some essential oil in certain proportions according to circumstances; generally of about twenty-three parts of essential oil, combined with seventy-seven parts of spirit of the strength of ninety-tive degrees .- Polytechnic Journal.

UNITAIR GAS-METERS.

Mr. Flower, in a pamphlet on the gasmeter, proves in what manner it may be affected so as to show a false register of the quantity of gas consumed, to the great loss of the consumer,

"An undue quantity of water in a meter will make a difference of about twenty per cent. in the amount registered over the quantity acmally consumed; but let the water in a meter

consumer and to the companies, but more especial to the latter, who take good heed that the meter shall not and cannot give more than a nominal 1000 feet for the 1000 feet registered, which my experience shows to be not 900 for the 1000; but they leave their tenants to run the risk of defrauding themselves out of from one to twenty per cent. of gas as well. If, as the companies construct their meters, that too little water in them will occasion an impossibility of obtaining a supply of gas, why should they not be so guaged as to declare to the consumer, that if he has above a certain quantity of water in his meter he is registering water as well as gas?"

FEATS OF STRENGTH.

The following extraordinary Feats of Human Strength and Endurance are related in the New York Cowier and Inquirer, to have been exhibited at the Bowery Theatre. It was announced in the bills that M. Paul was to resist the power of two of the strongest horses to be found in New York, for a wager of 1000 dollars. The animals selected to pull against him were a pair of large-sized Pensylvania-bred horses, which are in the dolly habit of drawing from two to three tons of granite at a load, on an enormous truck. Paul, after firing a eannon weighing 400 lbs. from his shoulders. and ascending the fireman's rope, feet upp-r-most to the flies, by means of his hands alone, and performing other Herenlean feats, placed himself horizontally upon a strong oak ladder, in order to make the grand effort. The horses were led on by their regular driver, and harnessed to a rope fastened to Paul's feet. To this rope were attached three broad ribands or girths, one of which was drawn tightly over his loins, and the others over his shoulders. The brace afforded by his feet against the step of the ladder, the power of the girths, and his hold with both hands upon the upper part of the ladder, constituted his only resistance to the immense power he had to contend against. Paul's body when thus disposed, resembled that of a malefactor upon the rack, preparatory to being torn to pieces. When the colossal horses were brought upon the stage, and attached to the feet of the intrepid performer, a sensation of horror seemed to pervade every part of the house. The word was given—the horness straightened-the ladder creaked and strained-the two ropes by which one end of it was secured to the stage stretched and threatened to break: the horses aided by a platform upon the stage, with cleets to brace their feet, strained every muscle and vein-the well known voice of the driver-the lash repeated again and again-all failed to force the enduring champion from his hold. The shouts of the audience, and the withdrawal of the horses, proclaimed his triumph! M. Paul attained his 18th year in March last.

THE IMPILIA BOOTS. In the specification of the patentee (Mr. W. Baker, surgeon, of Grosvenor-street), the in-vention is stated to consist in a layer of horse giving untrition to the gelatinous tissues, an or other strong curled hair (felt or matted together, with or without a layer of caontchone) between the inner and outer soles of shoes and hoots. When a sole is to be composed of more than true thickness or the discussion of the consumed in producing gelatine for the discussion of the true thickness of hoots. than two thicknesses of leather, the patentee prefers that the layer of felted or matted hair should lie between the two upper pieces of In some cases, in addition to the use of the layer of matted or felted hair, he applies a thin sheet of India rubber (eaoutchoue) by applying the solution of India rubber much diminished. Now that we possess wh on the under surface of the matted hair, either or by placing a thin sheet of Judia appears to be the true theory of the action

WARMTH OF THE SNOW BLANKET.

At the French Academy of Sciences (March 14) M. Arago read a communication on the warmth imparted to the earth by a covering of snow, and respecting which there has hitherto been much scepticism. Stated that M. Boussingault had ascertained the truth of the theory beyond the possibility of doubt, during the past winter. He found that a thermometer plunged in snow in the depth of a decimitre (about 4 inches) sometimes marked 9 degrees of heat greater than at the surface.

CREAM AND BUTTER.

The Viscount de Romanet, in treating on the phenomena presented in the transformation of cream into litter, states, from miscroscopic observation, that the cream consists of the globules of the milk, which rise to the surface from their lightness, and which contain the butter in the form of pulp, enveloped in a white, thin, and clastic pellicle. The action of the churn is, he says, nothing more than the rup-ture of the pellicle, and it is the fragments o this Jelliele which whiten the liquid called butter-milk; the acidity which manifests it-self in this liquid, at the instant when the butter is formed, is due to the immediate contact of the butter with the acid principles of the milk.

ELECTRIC GILDING.

Prince Louis Bonsparte has exhibited to the Scientific Congress at Florence (in 1841), some platina gilt by De la Rive's process, and observes that this metal takes the gilding better than silver. He explains this, on the one hand, by the greater density of the platina; and on the other, by the insoluble layer of chloride of silver, which must withstand the perfect gilding of silver.

THE TORPEDO. - GLOW WORM.

M. Zantedeschi has confirmed the experiments of M. Mattencei on the torpedo: he thinks that the nerves come from the dilatation of the medulla oblongata, which forms the fourth lobe with the grey matter covering it .-Mr. Morren has found phosphorus in glowworms, as well as a system of prisms or transparent lenses above the luminous matter.

PROPERTIES OF GELATINE.

There has lately occurred in Paris a controversy on the use of the gelatine of bones for hospital soup, as recommended by D'Arcet; and the most contradictory opinions as to its qualities are daily published. Professor Liebig has, we think, decided this question. He has shown that gelatine cannot yield blood, and that by itself, therefore, it cannot support life. But he supposes that it is dissolved in the stomach, and being conveyed in the blood to every part of the body, acts as nutrimen to the gelatinous membranes and bone alone. This ingenious idea explains both how gelatine mixed with other animal matter form a good diet, and how it is peculiarly adapted fo sanguiferous nourishment. We can now read credit the statement of D'Arcet, who has show that in all the hospitals where the gelatine h been used as a principal but not the only article animal food, the patients relish it, the succe of the treatment has been much increased, a the period of convolescence on the avera

country against its use may be overcome; and that our hospitals may participate in the benefits of D'Areet's benevolent system, which, when successfully conducted, has likewise the advantage of superior economy.

PRESLAVATION OF ANIMAL AND VEGETABLE BODIES.

1 Mr. Bahington has reported to the British Association the results of experiments for the above purpose commenced in June, 1838, and continued four years. They were made by placing in small jars (5 inches by 2) solutions in water of the different substances unmixed but tried in three proportions: viz., 1, a saturated solution; 2, a solution diluted with an equal quantity of water; and 3, with a double quantity. The following is a list of them, arranged according to their value as preservatives of animal substances:

1. Good preservatives: napthha employed in the proportion of I part to 7 of water.

2. Moderately good, but the specimens soft: sulphate of magnesia, arseniate of potash.

3. Moderately good when examined in 1840, but the specimens decomposed in 1842: alum, innriate of ammonia, muriate of magnesia, nitre, sulphate of zinc, bicarbonate of potash, arsenions acid.

4. Quite useless for the purpose of preservation: sulphate of iron, sulphate of copper, sulphate of soda, sulphate of potash, carbonate of ammonia, nitrate of barytes, nitrate of strontian, nitrate of soda, muriate of barvtes, muriate of lime, phosphate of soda, chloride of potash, oxalic acid, and rough pyroligueous acid.

A few drops of kreosote in water is a good preservative, but stains the specimens brown. Corrosive sublimate preserves perfectly, but hardens the substances too much. Concenrrated acetic acid decomposes the skin, bones, and cellular membrane, but leaves the vessels untouched, i.e. preserved.

The vegetable substances are well preserved in oxalic acid, concentrated acetic acid, napthha, and kreosote; moderately well in muriate of ammonia, and corrosive sublimate. None of the others appear to have succeeded; nor, indeed, is the colour of the vegetables well preserved in any case; and, on the whole, the experiments with them are far from satisfactory.

ON THE ANALYSIS OF URINARY CALCULI.

By Mons, IL, MARCHAND, (with Notes by Mr. URE,*)

When a urinary calculus is to be examined, it ought to be sawn in two, in the direction of its greatest diameter, so as to enable us to ascertain the different layers of which it is formed. These layers are sometimes very different in their nature, and merit very great attention on the part of the

The first thing to be done in the treatment of a calculus, is to incinerate a small quantity in a platinum capsule, in order to know whether it be composed in whole or in part of substances which are volatile by heat. In the first case, it may be formed entirely of uric acid, or of urate of ammonia; in the second, it may contain the phosphates oxalate of lime, urate of soda or of lime, &c. When the residue fuses by the agency of heat, it may be inferred to contain the ammoniomagnesian phosphate. If, on the other hand, it effervesce on the addition of muriatic acid, we may conclude, that urate or oxalate of lime had been present in the calculus, more especially if it afford the characters of the salts of lime, when subjected to the proper tests.

part, by the action of heat, we must then look for uric acid. For that purpose, we pour a drop or

Where the calculus is destroyed, in whole or in

1 may remark in passing, that M. Berzelius commits an error, when, in speaking of the action of nitric acid upon uric acid, he says, that the red matter arising from that re-action, and which accompanies the purpuric acid, does not colour the water in which it is dissolved. The fact is, I have always seen the liquor acquire a beautiful crimson tint at the moment of solution, which disappeared by an elevation of temperature. But re-appeared in the residue of evaporation, In the cold the decoloration still occurs, though after a lapse of some hours, and there is deposited a powder of a readish yellow hue. [On treating five grains of pure uric acid with a little nitric acid of sp. gr. 1.280, diluted with five waters, and gently evaporating, the interior of the porcelain capsule, which had been used, exhibited the characteristic purple coating. Distilled water being added, immediately became a deep carmine colour; which, in the cold, as above stated, got gradually fainter and fainter, and, after six hours wholly

By this procedure we demonstrate, it is true, the presence of nric acid; but it is necessary to determine whether the acid be pure or mixed, or combined with other substances. For this end, a portion of the calculus, previously pulverized, is to be treated with a solution of caustic potash. If, during the process of solution, an ammoniacal smell be developed, other than that of Ive, which is peculiar to uric acid, we may be sure, that it is united in totality, or in part only, with ammonia. When the calculus dissolves altogether in potash, it is composed entirely of uric acid or of urate of ammonia. Should it not dissolve completely, we must ascertain the nature of the substances which enter as constituent parts into its composition, and which are mingled or combined with uric

When a calculus consists at the same time of uric acid and of urate of ammonia, we can easily recognize if the nric acid be wholly combined with ammonia, or if only a part be associated with that base. With this view, we must boil a portion of the pounded calculus for some instants in distilled water, and then filter. The urate of ammonia alone dissolves, sometimes in the state of biurate, while the free uric acid remains at the bottom of the tube, as can be verified by treating the remainder with potash, which no longer disengages any ammonia.

It has been stated above, that all calculi are not destroyed by the action of heat. To discover the nature of the substances which withstand fire, we must try whether they are alkaline or not after incincration, and whether they effervesce or not with muriatic acid. When the ashy residaum is alkaline and effervesces with acids, it is from the decomposition of a urate or an exalate, frequently with lime for its base. To learn which of those acids exists in the calculus, we must boil a very small quantity of the last in water acidulated with nitric acid, then filter the liquor and saturate with ammonia. If a white precipitate be obtained, we may thence infer the presence of oxalate of lime; if, on the contrary, ammonia give no precipitate, we may conclude that the residnum is merely the product of the decomposition of a calcareous urate. These two re-actions are readily explained:—Under the influence of the nitric acid, the oxalate, as well as the urate of lime, is dissolved in water, but the former without changing its nature, and it is simply requisite to saturate the nitric acid, by means of ammonia, to make it re-appear. The urate of lime, on the other hand, undergoes decomposition when dissolved in water acidulated with nitric acid, nitrate of lime being formed which the ammonia does not affect,

When the residumn is alkaline and does not effervesce with acids, it usually consists of phosphate of lime, as ascertained by triturating it along with a few drops of a solution of nitrate of silver. If it acquire a vellowish tint, we are sure that it contains phosporic acid; by heating another portion with water acidulated with nitric acid, we obtain a liquor which, provided the residuum consisted of phosphate of lime, affords, by means of tests, all the characters of salts, and which, moreover, is precipitated by ammonia.

When the residuum is not alkaline and does not effervesce with acids, it is ordinarily formed of the ammonia-magnesian phosphate, fusible below the blow-pipe, emitting an odour of ammonia when treated by caustic potash, and assuming likewise a yellow tint when put in contact with nitrate of

When the calculus does not experience any sensible loss by the action of heat, or exhibit the characters of uric acid when treated with nitric acid, it consists of exalate of lime, of ammonia magnesian phosphate, of phosphate of lime, of silica, of sulphate of lime, &c.; sometimes of a mixture of two or more of these substances.

To arrive at a knowledge of the constitution of these kinds of calculous concretions, we commence by calcining a small quantity in a platinum spoon. over the flame of a spirit lamp. We next pour some drops of water upon the ashes and see whether they are alkaline and effervesce with acids; if so, oxalate of lime forms a component part; if not, we must search for phosphate of lime, phosphate of ammonia and magnesia, silica, or sulphate of lime. For this purpose a drop or two of nitrate of silver is to be poured upon a portion of the calculus, and they are to be well triturated together. If the mixture assumes a yellow tinge, it is a proof of the presence of phosphoric acid in the calculus. In treating a particle of the calculus with caustic potash, we can tell whether or not the acid is combined with ammonia. In the first case it will evolve an ammoniacal odour. However, we must still submit to the flame of the blow-pipe what remains after calcination, to see if it fuse into a glass bead a character of the double phosphate of ammonia and magnesia. By its greater or less fusibility we may soon, with a little practice, determine whether the calculus be formed or not of a mixture of phosphate of lime and phosphate of ammonia and magnesia. Further information will be obtained by dissolving a small quantity of the ash in water acidulated with nitric acid, and treating the filtered liquor with exalste of ammonia, which occasions in the solution of the calcareous phosphate, only, a white precipitate of exalate of line.

Siliceous concretions are recognised by their insolubility in acids, and by affording on fasion with alkalis a colonrless glass, which will dissolve in water provided there be a sufficient excess of alkali.

In the collection of Mons, E. Barrnel is the fragment of a vesical calculus, weighing nearly sixty grammes, and formed almost entirely of sulphate of lime. This fragment, which is concave, (the internal portion having gone astray) is in brilliant lamellar crystals, of a reddish colour. Calcined, in a platinum erneible, it exhales an odour of burnt milk, and takes a grevish hue. Heated before the blow-pipe it does not fuse, but becomes, on the contrary, very friable. It is not attacked by a solution of eaustic | otash, or sensibly by nitrie acid. Treated with distilled water, it furnishes a liquid in which the presence of both lime and sulphuric acid can be unequivocally detected. Hence, it will be proper in future to test calculi for sulphate of

When a few drops of solution of chloride of barium are poured into a solution of uric acid, saturated by the aid of heat, and allowed to cool, a white precipitate ensues, only partially removed upon adding nitric acid. The portion which does not dissolve in that acid, and which an excess of water will not take up, presents completely the pearly aspect of sulphate of barytes, recently preipitated, and diffused through a quantity of water. However, it must be admitted, that when the barytie chloride is poured into a saturated and boiling solution of nrie acid, or urate of ammonia, a precipitate is thrown down, which readily dis-

two of nitric acid upon a small portion of the pulverized calculus, and expose it to a gentle heat, until perfect desicention. Should it contain urie acid, that treated by the nitric acid, assumes a fine red color; of which the intensity may be increased by adding a few drops of water, and drying at a moderate heat. To succeed well in this operation, care must be taken not to employ too much nitric acid, otherwise we transform the uric into oxalic acid, and no longer obtain the desired resultnamely, the formation of purpuric acid.

^{*} The Notes are inserted between brackets.

appears when treated, first, with concentrated nitric acid, and next with distilled water.

This property of the urate of barytes ought to be considered, as regards the determination of sulphuric acid in urinary concretions. The sulphate of lime being indecomposable by heat, the calculus should always be calcined before any researches are instituted for discovering its presence.-[Entertaining some doubts upon the above point, inconsequence of the very sparing solubility of uric acid in water. I was induced to repeat the experiment. I accordingly boiled some pure uric acid in a quantity of distilled water, and allowed the whole to cool. On pouring off the clear liquid, and adding to it a few drops of solution of chloride of barium, no precipitate whatever ensued. Probably the fallacy in the French experiment was owing to the accidental presence of sulphate of lime.]

Oxide of iron is another substance we may look for in the analysis of nrinary calculi. Some time back, M. E. Barruel met with gravel almost entirely composed of it, although the patient, who voided it, had never been submitted to a ferruginons treatment.-[A remarkable calculus of this kind was sent from Bogota, by Dr. Roulin, to M. Boussingault; it weighed rather more than a gramme [15.4 grains,) was about the size of a nut, and considerably resembled certain mineral states of iron sand; it consisted, by analysis, of peroxide of iron, 38.81; alumina, 23.00; silica, 17.25; lime, 8.02; water, 10.89; loss, 2.03, in 100 parts. Several other calculi, of similar composition and appearance were afterwards passed by the same person. - See Bull. Univ., c. x., p. 128, in Quart. Journ. of Science for 1827.]

In order to save complexity, the methods of distinguishing the xanthic and cystic oxides have not been indicated, because these kinds of calculi are extremely rare, and, besides, easily recognised by the characters assigned to them in works on Medical Chemistry .- [Xanthic oxide dissolves in nitric acid without any gaseous evolution; and there remains after evaporation a bright eitron yellow mass of which the solution in water is of a light, and that in potash of a deep reddish-yellow hue. Salammoniac throws down the substance again with its yellow colour from the alkaline solution. Cystic oxide or cystine dissolved in caustic potash, and the solution decomposed while boiling hot with exeess of acetic acid, crystallizes by slow cooling in hexagonal spangles. It is soluble in diluted seids, as oxalic and muriatic, in which respects it differs from the zanthie oxide.]—Pharmaccutical Journal.

INGREDIENTS OF STAMPED AND PATENT MEDICINES.

(According to Dr. Paris and other Authorities.)

Dry Vomit of Marriott.-This once-celebrated vomit, called dry from its being exhibited without drink, consisted of equal proportions of tartarized antimony and sulphate of

Madame Nonffleur's Receipt for Tape-worms. -Three drachms of the root of the male fern, reduced to a tine powder, and mixed with water; this constitutes one dose. Two hours after taking the powder, a bolus of calomel. scammony, and gamboge, is to be administered.

Duke of Portland's Powder for the Gout .-Equal quantities of the roots of gentian and birthwort (aristolochia rotunda), the tops and leaves of germander (channedrys), ground pine (chamæpitys), and lesser centaury (chironea centaurium), powdered and mixed together.—As this is a combination of bitters, it might without doubt, be serviceable in certain

Keyser's Anti-Venereal Pills consist of the Acetate of Mercury, triturated with manna.

Arquebusade, ("Aqua Vulneraria,") a lotion, criving its name from having been originally applied to wounds inflicted by the arquebuss, is composed of vinegar, sulphuric acid, honey,

and alcohol, impregnated with various aromaties.

Aromatic Vinegar is an acetic solution of camphor, oil of cloves, of lavender, and of rosemary. The acetic acid used for this purpose is of about 145 degs. of the acetometer, containing 68-5 per cent. of real acid. A preparation of this kind may be extemporaneously made by putting 5j. of Acetate of Potass into a phial with a few drops of some fragrant oil, and mxx. of Sulphuric Acid.

Thieves' Vinegar, or Marseilles Vinegar, is a pleasant solution of essential oils and camphor, in vinegar; the Edinburgh Pharmacopæia has given a formula for its preparation under the title of "Acetum Aromaticum." The repute of this preparation as a prophylactic in contagious fevers is said to have arisen from the confession of four thieves, who, during the plague of Marseilles, plundered the dead bodies with perfect security, and, upon being arrested, stated, on condition of their lives being spared, that the use of the Aromatic Vinegar had preserved them from the influence of contagion. It is on this account sometimes ealled "Le Vinaigre des quatre voleurs." was, however, the constant custom of Cardinal Wolsey to carry in his hand an orange, deprived of its contents, and filled with a sponge which had been soaked in vinegar impregnated with various spices, in order to preserve himself from infection, when passing through the crowds which his splendour or office attracted.

Elixir of Vitriol.—The preparation sold under this name is the Acid. Sulph. Aromat. E., and is imperfectly ætherial in its nature.

Dr. Smellome's Ointment for the Eyes consists of half a drachm of Verdigris finely powdered and rubbed with oil, and then mixed with an ounce of yellow Basilicon, (Ceratum Resinæ.)

Taylor's Remedy for Deafness.-Garlie infused in oil of almonds, and coloured by alkanet root. It is an imitation of the "Acoustic Balsam'' (Saint Marie) or the "Acoustic Oil" (Spielmann) Garlie is also an ingredient of the different aromatic vinegars recommended by various foreign authors as antidotes to contagion.

Anderson's Pills consist of the Barbadoes Aloes, with a proportion of Jalap, and Oil of Anisced.

Hooper's Pills .- Pill Aloes cnm Myrrha, (Pil, Rufi) Sulphate of Iron, and Canella Bark, to which is added a portion of Ivory Black.

Dixon's Antibilious Pills .- Aloes, Scammony, Rhubarb, and Tartarized Antimony.

Speediman's Pills.—Aloes, Myrrh, Rhubarb, Extract of Chamomile, and some Essential Oil of Chamomile.

Dinner Pills.—Lady Webster's, or Lady Crespigny Pill.—These popular pills are the "Pilulæ Stomachieæ," vulgo, "Pilulæ ante cibum" of the Codex Medicamentarius Parisiensis. Editio Quinta, A.D. 1758, viz. R. Aloes optimæ 5 vj. Mastiches, et Rosarum rubrarum aa, 5ij. Syrupi de Absinthio q. s. ut fiat massa, the mass is divided into pills of three grains each. The operation of this pill is to produce a copious and bulky evacuation, and in this respect experience has fully established its value. It is difficult to explain the modus operandi of the Mastiche, unless we suppose that it depends upon its dividing the particles of the aloes, and thereby modifying its solubility. Similar to these pills are the "Grains de vie de Mesuc" and the "Grains de Sante de Frank," although the latter are more purgative, containing, besides Aloes, Ox Gall, and Tartarized Antimony.

Fothergill's Pills. Alces, Scammony, Colocynth, and Oxide of Antimony.

Peter's Pills.—Aloes, Jalap, Scammony, and

Gamboge, equal part 5ij.—Calomel 5i.

Radeliffe's Elizir.— B. Aloes Socot. 5vi.
Cort.—Cinnamon et Rad Zedoar. 5a. 588.— Rad. Rhei 5i.—Coccinel. 5ss.—Syrup, Rhamni f 5ij.-Spirit. Tenuior. oj.-Aquæ Puræ

The Elicir of Longevity, of Dr. Jernits, of Dr Sweden, is an aromatic tincture, with Aloes. The Anti-Arthritic Elixir, of Cadet de Gassicourt, consists of a mixture of the three tinetures of Aloes, Guaiacum, and Myrrh, and it is recommended also as an antidote to the effects of poisonous fungi. " Remede contre les accidens occasionees par les champignons mal-

Godfrey's Smelling Salts.—This highly pungent preparation is obtained by resubliming the common subcarbonate of ammonia with pearlash and a proportion of rectified spirit. The subcarbonate of potass in this case abstracts a fresh portion of carbonic acid from the ammoniacal salt. Its atomic composition has not yet been ascertained, but it will probably be found to consist of equal atoms of earbonic acid and ammonia, and must, therefore, be a true carbonate.

Noyau (Creme de Noyau).—Bitter almonds blanched loz, proof spirit half a pint, sugar 4 oz. It is sometimes coloured with cochineal. The foreign Noyau, although differently prepared, is indebted to the same principle for its qualities. It is a liquor of a fascinating nature, and cannot be taken to any considerable extent without danger: the late Duke Charles of Lorraine nearly lost his life from swallowing some " Eau de Noyau," (water distilled from peach kernels too strongly impregnated)

Almond Paste.—This cosmetic for softening the skin, and preventing chaps, is made as follows: bitter almonds blanched 1 oz., the white of an egg, rose water and rectified spirit equal parts, as much as is sufficient.

Norris's Drops.-A solution of tartarized antimony, in rectified spirit, disgnised by the addition of some vegetable colonring matter. I am credibly informed, says Dr. Paris, that the original recipe contained opium, but that which I have examined, and which was procured from a respectable agent, yielded no indications of its presence.

COMPOSITION OF THE MUSCULAR FLESH OF DIFFERENT ANIMALS.—Dr. Schlossberger examined the flesh of the ox, the calf, the hog, the sheep, the buck (of 31 weeks old), the roe, the hen, a young pigeon, a very young duck, the barbel, the trout, and the crayfish. All contained fibrine, cellular tissue, liquid albumen, animal matters soluble in alcohol, extractive matter soluble in water only, salts, and, while fresh, more or less free lactic acid. The albuminous coagulum varied according to the quantity of intermixed blood; in the younger animals being less coloured. It was formed more speedily in the flesh of the fish and the erayfish, and invariably yielded, by incineration, phosphorus, sulphur, and iron. The pigment was entirely absent in most fishes and had a more fatty or resinous character in the crayfish. The hæmatosine, whenever found was always the same. The quantity of contained blood increased with the age, and appeared to be in inverse ratio with the water, but in direct ratio with the contained fibrine. All the kinds of flesh contained osmazome. This was a brownish yellow, non-gelatinous extractive matter, having an aromatic odour and an aerid taste, and being soluble in water and alcohol. It increased with the age and with the height of the animal in the scale of organization. The fibrine was every where th same.

ARTIFICIAL MINERAL WATERS.

(From the French Pharmacoparia.)

Natural Mineral Waters constitute an important art of the agents for removing disease. The diffiulty which exists of procuring thea, and the hanges to which they are subject in the depots here they are preserved, have given rise to the lea of making artificial waters, but the actual state f science does not enable us to imitate accurately he waters of the majority of the springs; whether is that chemical analysis leaves a doubt as to the ature of their component parts, or as to the mode 1 which they are combined, or that these waters ontain principles which art has not yet been able o produce. As, however, these artificial waters orm part of the kingdom of materia medica, and hey are of great use in curing disease, it may not e unadvisable to give certain formulæ for their reparation, some of which have been already conecrated by use, and in the others are comprised the principal varieties of the most ordinary mineralizers of springs. By acting in accordance with their themical analyses, imitations of the waters of other natural mineral springs, more or less accurate, may

Mineral waters are called saline, when they hold i strong proportion of salts in solution; acidulated, when they are charged with carhonic acid gas: ferruginous, induretted, when iron or iodine is contained in them in sufficient quantity to give them a marked character; sulphureous, when they are mineralized by sulphuretted hydrogen or an alcaline sulphuret.

The preparation of saline waters consists in a simple solution of the salts in water: acidulated waters are made with carbonic acid gas, which has been carefully washed to remove any traces of any other acid; and as the water must contain a larger proportion of the gas than is soluble in it under ordinary circumstances, a proper apparatus must be employed for the purpose. When it is requisite to combine the saline and acidulous waters, it may be done either by dissolving the salts in water, and then charging it with the gas, or by making a concentrated saline solution, and putting it into a bottle, which is afterwards to be filled up with the water charged with gas. When insoluble carbonates are required in a mineral water, they must be used in the gelatinous state in which they are found on their production by double decomposition in water, as carbonic acid gas will more readily act on them. If by a double exchange of acids and bases, the salts directed in the formula can be all theoretically transformed into soluble salts, this substitution should be effected; then, at the moment of mixing the different saline solutions, the primitive formula is realized; the insoluble carbonates are produced and precipitated, and re-dissolved at a later period by the carbonic acid gas. An example of this kind will be found in the saline acidulated water, used to replace the natural EAU DE SELTZ. In the preparation of ferruginous mineral waters, water deprived of air must be employed; it may be obtained by boiling water for a quarter of an hour, and letting it cool, without being exposed to the air. The presence of oxygen in the water would cause the iron to pass to the state of peroxide, which would be precipitated in a great measure, either as an hydrate, or an insoluble salt. Sulphur s introduced in mineral waters, either as a soluble sulphuret, generally of sodium, or combined with hydrogen. In preparing this latter, a saturated solution of gas should be employed; in this state it is much too concentrated, and should be diluted with water, for the preparation of artificial sulphurous waters. As the alcaline sulphurets are exceedengly soluble, their introduction in mineral waters does not offer any difficulty.

AQUA ACIQULA SIMPLICIOR .- R aquæ puræ 1 vol.; acidi carbonici 5 vol. Charge the water with the gas by means of a proper apparatus, and fill bottles with it, each containing about 20oz.: they must be very accurately corked, and kept lying down in a cool place. By adding two ounces of syrup of lemons to each bottle before the gazeous

syrnp, a great number of acidulated and saccharine simple gazeous water. This preparation resembles drinks may be procured.

ARTIFICIAL EAU DE SELTZ .- R Chlorureti calcii gr. vj.; chlorureti magnesii gr.v.; chlor. sodii gr. xx.; earb. sodæ cryst. gr. xvj: phosph. sodæ cryst. gr. $1\frac{1}{3}$; sulph sodæ cryst gr. j.; aquæ puræ 5xx.; acidi carbonici 5 vol. Dissolve the sodaic salts in one proportion of water, and the earthy chlorurets in another, mix the liquors, and charge them with gas; the gazeous saline water which is the result, should be poured directly into bottles, and well stoppered. It is intended to replace the natural Eau de Seltz; it contains more carbonic acid, and is therefore often preferable.

AQUA ACIDULA CUM BICARB. POTASS.E.-R Biearb. potassæ Div.; aquæ puræ 3xx.; acidi carbonici 5 vol. Dissolve the salt in water, charge with the gas, and bottle. Each ounce will contain about four grains in solution.

Soon Water.—P. Bicarb. sodæ gr. xx.; aquæ puræ sxx.; acidi carbonici 5 vol. Prepare as the preceding one.

ARTIFICIAL EAU DE VICHY .- R Carb. sodæ cryst, 3ij. gr. vj.; chlor, sodni gr. 1; chlor, calcii cryst. gr. xi.; sulph. sodæ cryst. gr. vj.; sulph. magnes, cryst, gr. iij.; sulph, ferri, cryst, gr. 1/3: aquie aere orbatæ 3xx.; acidi carbonici 3½ vol. Make a solution of the sodaic salts, another of the sulphate of magnesia, and a third of the chloruret of calcium; mix, and charge with the gas; then pour into bottles, in which the sulphate of iron dissolved in a little water has been previously introduced. This water differs essentially from the natural Eau de Vichy in the absence of organic matters.

ABTITICIAL EAU DE MONT D'OR .- R Carb. sodie eryst. 3ij. gr. xxiv.; chlor. calcii cryst. gr. viij.; chlor, magnesii cryst, gr. 11; chlor, sodii gr. 11 sulph. ferri eryst. gr. ij.; sulph. sodæ eryst. gr. 11/4 aqua aere orbitæ 3xx.; acidi carbonici 5 vol. Dissolve the carbonate of soda and the marine salt in water, and charge the solution with gas; make another solution of the earthy chlorurets and of the sulphate of iron, and mix; introduce into bottles, and fill them with the gaseous saline water. Stopper quickly.

EAU DE BOURBONNE.-P. Bromuretti potassi gr.3; chloruret sodii gr. liv.; chlor. calcii cryst. gr.xxxviij.; sulph. sodæ cryst; gr. xxij.: bicarh. sodæ cryst, gr. vj.; aquæ puræ 3xx.; acidi carbonici 5 vol.

Magnesian Water.—R Sulph. magnes, cryst. Sviij. gr. xxiv.; carb. sodæ cryst. 5x. gr. xlvij.; aquæ puræ 3xx.; (cidi carbonici 6 vol. Dissolve each of the salts separately in water, mix and boil the solution, keeping them boiling until gas is no longer disengaged; let them precipitate, decant, and wash the precipitate carefully, and let it drain; mix it with a sufficient quantity of water, and charge with the gas. It should not be bottled until several bours after the introduction of the gas, and during that time, should be occasionally shaken to favour the solution of the carbonate of magnesia. Each bottle will contain two drachms twenty-four grains of white magnesia in the state of bicarbonate, with a slight excess of carbonic acid.

GAZEOUS MAGNESIAN WATER .- R Sulph. magn. cryst, 3iv. gr. xij.; carb. sodæ cryst. 3iv. gr. liv.; aquæ puræ 3xx.; acidi carbonici 6 vol. Proceed as for the simple magnesian water. Each bottle of 20 ounces will contain one drachm gr. xij of white magnesia in the state of bicarbonate, with an excess of carbonic acid.

ARTIFICIAL FAU DE SEIDLITZ .- R Magn. sulph. cryst. 5ij. gr. xxiv.; aquæ puræ 3xx.; acidi carbonici 3 vol. Dissolve the sulphate of magnesia in water, charge with the gas, and bottle. The Eau de Seidlitz may be prepared with a larger quantity of the salt, each hottle to contain either twice, thrice, or four times as much.

ARTIFICIAL EAU DE SPA.-R Carb. Sodæ cryst. gr. iij.; carb. calcis gr. 3-5ths; magn. carb. | gr.; proto-chlor, ferri gr. 3; Aluminis cryst, gr. 1-7; aquæ aere orhatæ 3xx.: acini carbonici 5 vol. Dissolve the carbonate of soda in a small quantity of water, and mix the carbonates of lime and magnesia with the solution; dissolve the alum and chloruret water be added, a very agreeable drink may be ob-ained, called gazeous lemonade. By changing the two solutions. Pass into bottles, and fill, with the of fat; every soluble substance of the body enter

the Spa waters, and also in some degree those of Bussang, Forges, Pyrmont, Vals, &c.

EAU SULFUAEE.-R Sulphureti sodii cryst. gr. ij. 1/2; carb. sodæ cryst. gr. ij. 1/2; chlorureti sodii gr. ij. 1/2; aquæ aere orbatæ 3xx. Dissolve and keep in well-corked-bottles. This mineral water is used to replace those charged with the sulphuret of sodium. and is often used in lieu of the sulphureous waters of the Pyrenees, of which, however, it is but an imperfect imitation. It is employed indifferently under the names of Lan Minérale Artificielle de Barèges, de Cauteretz, de Bagnères, de Luchon, de Bonnes, de Saint Sauveur, or of any other sulphureous water of the eastern Pyrenees.

SOLUTION FOR THE ARTHICIAL BAIN DE BEREGES. -R Sulphureti, sodii cryst.; caro. sodæ cryst.; chlorureti sodii ; ana 3ij. 3iij. gr. vj. ; aquæ puræ x. Dissolve the salts in water, bottling quickly, and corking carefully. It is to be mixed with the water in the bath when required. The quantity above indicated is sufficient for a bath containing 300 quarts. It gives a colorless bath, having a slight hydro-sulphurous odor, differing in every respect from the ordinary sulphureous bath prepared with the sulphuret of potassium obtained from sulphur and potass.

PHARMACEUTICAL VARIETIES.

Non-nitrogenised Foods. - It cannot be a matter of doubt, (says Dr. Pereira, in the Pharmaceutical Journal) that non-nitrogenised substances are intended by nature to constitute part of the food of man and other animals, but especially of the herbivora. We find fixed oil in the yolk of the egg, and in milk (in which it is called butter), two substances supplied by nature for the food of young animals. Milk contains a second non-nitrogenised alimentary principle, namely sugar. If we further add the fondness of animals for non-nitrogenised substances, the craving, nay, almost insatiable desire for them, manifested by individuals who are deprived of them, and the fact before mentioned, that nitrogenised food alone cannot support life, not a doubt can remain in our minds that these principles are essential to health

In commencing our enquiry then into the particular purpose they serve in the animal economy, I would observe, in the first place, that with the exception of fat, none of them are constituents of the animal system; nor in a state of health are they found in the excretions. It is obvious, therefore, that they must suffer some change or transformation in the organisms. Now they all consist of carbon, hydrogen, and oxygen. In starch, sugar, and gum, the hydrogen and oxygen are exactly in the ratio to form water. Do they, therefore, contribute carbon, or in some cases, carbon and hydrogen, to assist in the formation of blood? Liebig asserts they do not, for he observes that as the nitrogenised principles used as food contain exactly the "amount of carbon [and hydrogen] which is required for the production of fibrine and albumen," it follows that the carbon of gum, sugar and starch, and the carbon of hydrogen and butter and other fats cannot "be employed in the production of blood." If the nitrogenised principles contained less carbon than albumen and fibrine, then starch, sugar gum, and fat, might give up some carbon to compensate the difference. He, therefore, concludes, that these bodies yield their carbon, and, when their hydrogen is in excess to their oxygen, part of their hydrogen also, to form with atmospheric oxygen, carbonic acid and water, and, therefore, to develope heat. They serve to protect the organism from the action of the oxygen, which, in the absence of food, consumes the tissues. "If," says Liebig, " we observe a man or other animal in sickness, or at any time when the body is not supplied with nourishment to compensate for the continual loss, we find him become lean; the fat is the first to disappear, it vanishes through the skin and lungs in the form of carbonic acid and water as none of it can be found in the faces or nrine; it resists the action of the atmosphere on the body, and is a protection to the organs. But the Suto combination with the oxygen of the air. The influence of the oxygen of the atmosphere is the cause of death in most chronic diseases, from want of earlion to resist its action, that of the nerves and brain is used. In a normal state of health and nutrition, the carbon of the carbonic acid must have another source."

You will now understand why Liebig calls the non-nitrogenised fools clements of respiration; and will comprehend in what way alcohol taken dietetically contributes to the production of animal heat. The Temperance and Teat-total Societies have quite overlooked this use of spirit. It certainly cannot alone form organised tissues, since it is deficient in some of the essential ingredients-nitrogen, sulphur, and phosphorus. But it cannot be doubted that it undergoes some change in the animal economy, and probably may be made some use of. It is not found in the exerctions; traces of it, indeed, are recognisable io the breath, but the quantity in this way thrown cut of the system is inconsiderable, and scareely worthy of eonsideration. It, therefore, must be got rid of in the form of carbonic acid and water, and to convert it into these substances it requires merely atmospheric oxygen.

T-Now, the formation of carbonic acid and water must be attended with the development of heat; and, therefore, alcohol is a fuel in the animal economy, by the combustion of which, caloric is evolved. Common experience favours this view. Coachinen and others take it in cold weather to keep them warm, and it is familiarly used to prevent what is called "catching cold." In cases of extreme suffering and exhaustion from excessive exertion and privation of food, the cautious and moderate dietetical use of spint has, on many occasions, proved invaluable. In Captain Bligh's account of the sufferings of himself and companions, in consequence of the mutiny of the crew of the Bounty, he observes, " The little rum we had was of great service; when our nights were particularly distressing. I generally served a teaspoonful or two to each person: and it was joyful tidings when they heard of my intentions." It is said, that the inhabitants of colder climates take more spirit than others and with less injury. Liebig accounts for this by saying that they is hale a more condensed air, that is, they take in more oxygen at every inspiration; combustion is more rapid in them, and thus the elements of the alcohol arc more speedily

I trust that in offeriog these remarks on the effects of alcohol, I may not be misunderstood. I do not wish to east any reflections on the Societies before referred to, whose motives I highly esteem, and whose objects I would gladly promote. It is my duty, however, to lay before you, on this matter, what I believe to be the truth. If I had to point out the injurious qualities of alcohol, I think I could soon prove that though it evolves heat in burning. it is an obnoxious and most expensive fuel. Consider its volatility, the facility with which it permeates membranes and tissues, and its injurious operation, before it is burnt in the lungs, on the stomach, the busio, and the liver .: Remember that though spirit burns and evolves heat, there are, under ordinary circumstances, other better, safer, and cheaper combustibles to be burned in the vital lamp.

Some of these non-nitrogenised foods serve another purpose in the animal economy-they contribute to the formation of fat. When the quantity of these foods taken into the stomach is great, that is, out of proportion to the quantity of exygen absorbed by the lungs, fat is, under some circumstances, formed. Sugar, starch, and gum become, by the loss of part of their oxygen, fat; for the relative proportion of their carbon and hydrogen is almost identical with that of fat.

Starch contains	79	earbon	to	10.99 h	ydrogen
Sugar	79		4.6	11.80	_
Gum			61	11.80	-
Mutton fat	. 79	_	"	11.1	_
Humao fat	. 79	_	4.4	11.4	-
Illasta lard	20		4.6	117	

Some facts adduced by Liebig are almost conclusive that starch and sugar may become converted into fat in the acimal economy. A lean goose, weighing 4lbs, gained, in thirty-six days, during which it was fed with 24lbs, of maize, 5lbs in weight, and yielded 31lbs. of fat. Now this fat could not have been contained in the food ready formed, because maize does not contain the thousandth part of its weight of fat, or of any substances resembling fat. A certain number of bees, the weight of which were exactly known, were fed with pure honey devoid of wax. They yielded one part of wax for every twenty parts of honey consumed, without any chaoge being perceptible in their health or io their weight. I agree with Liebig, that with these facts before us, "it is impossible any longer to entertain doubt as to the formation of fat from sugar in the animal body *."

But alcohol is an element of respiration. Does it form fat? I think not. In the first place, its carbon and hydrogen are not in the ratio of those of fat, for it contains 69 parts of earbon to 19.74 of hydrogen. Secondly, we do not find that spirit drinkers are fat; but, on the contrary, emaciated. Hogarth, in his Beer Alley and Gin Lanc, has Indicrously though faithfully represented the differences in the appearance of beer topers and spirit tipplers. The first are plump, rubicund, and bloated; the latter are pale, tottering, emaciated, and miserable.

Phosphocus.—This, says Dr. Pereira, is a constituent of both animals and vegetables. It is an essential ingredient of albumen and fibrine, and of all tissues composed of those principles. Nervons all tissues composed of those principles. matter also contains it. Its existence in the brain has been long known. In 1834, Concrbe † advanced an absurd notion, that the healthy or morbid conditions of the mental faculties were connected with variations in the amount of this substance in cerebral matter. "In the brains of sane men," says he, "I have found from 2 to 2.5 per cent. of phosphorus, in those of idiots only I or 1.5, while in those of mad-men there are from 3 to 4.5 per cent.!" It is searcely necessary to say, that the accuracy of this assertion has been disproved; and Lassaigne ‡ fixes the amount of phosphorus in the brains of madmen at from 1.93 to 1.97 per cent. The bones also contain phosphorus, which exists in them in combination with oxygen and lime principally, constituting a sub-phosphate of lime (bonc ash). As phosphorus, therefore, is an essential ingredient of the animal body, it must of course be a constituent of the feod. The yolk of egg and milk, both aliments for young animals, contain it; in the latter of these foods it exists as subphosphate of lime. It is a constituent of the bones and flesh of animals, and of many vegetable substances on which we feed. Fruits and seeds, especially of the grasses, abound in the earthy phos-

* The mode of promoting obesity, practised in certain parts of the world, lends support to the above statements. If "we can trust to the reports of physicians who have resided in the East," says Liebig, "the Turkish women, in their diet of rice, and in the frequent use of enemata of strong soup, have united the conditions necessary for the formation both of cellular tissue and fat." M. Caullet de Vaumoral quoted by Mrs. Walker, (Temale Beauty, p. 171, Lond. 1837), states that in the Bey's Seraglio at Tripoli, women are fattened against a certain day by means of repose and baths, assisted by a diet of Turkish flour, mixed with honey. Tifteen days, he says, were sufficient for the purpose.

phates: and horses are in consequence subject to the formation of a large intestinal concretion (hippolithus) composed of ammoniacal phosphate of magnesia derived from the husk of the oats on which they are fed. Dr. Pereira has two specimens of this concretion, each of them as large as a child's head, and weighing several pounds. Fishes are especially rich in phosphoric matter,—a fact which explains the circumstance related by Dumas, * of the evolution of phosphuretted hydrogen in the purification of spirit which had been used for preserving fish.

The following table shows the quantity of phosphorus, phosphoric acid, or earthy phosphates, contained in some alimentary substances.

TABLE OF THE QUANTITY OF PHOSPHORUS, &C., IN

ALIMENTAR	Y SUBSTA	NCES.	
1000 Parts, Fibrine (dried)	Quanti	ty of P	horphorn s
Fibrine (dried)		1210	2 9 3 Lullan 4
Albumen of eggs (dried) (4.0 10 .	3.2 Mulder.
Albumem of serum of b	lood (drie	ed)	3.3 Mulder.
Vegetable fibrine		asanim	alfibrine and
albumem			
Cerebric acid (in braio)		9	Fremy. ;
Oleophosphoric acid (ir	r brain) 1	l2 to 19	Ditto.
1000 Parts. Qu			
Potatoes (dried)	5	.631	Einhoff. \$
1000 Parts. Quar	ntity of E	arthy P	hosphates.
Wheatfrom			'
Rye	6 to 4]	L8 🕻 🕌	[ermbstaedt.]
Barley	1 to 6	i i i	termostaedt.
Oats	1.6 to 6)	
Rice	1.3 to 4	-	
Garlie	11		
Caseine	60	1	Berzelius.¶
Bones of sheeps' feet	1242 Fr	ench C	ommission.**
Ox's head	327.7	Ditto	
Milk	2.55	В	erzelius.
Blood (average)	0.6	D	enis. tt

These are only some of the substances used as food in which phosphorus has been detected. But most organised substances contain it, usually in the form of phosphate of lime. Thus, in the ashes of almost every plant a phosphate is found. The crust, which is deposited in the boilers used for refining sugar, contains, occording to Avequin. ## no less than 92.43 per cent. of sub-phosphate of lime; so that it is obvious that unrefined sugar must contain phosphorus.

These observations fully establish the correctness of Liebig's remark, that when flesh, bread, fruit, and husks of grain are used for food, more phosphorus is afforded to the body than it requires, and the excess is eliminated in the urine and excrement.

SULPHUR .- Sulphur, says Dr. Pereira, is a constituent of both animals and vegetables. Fibrine and albumen, and all tissues composed of these substances, contain it. If hydrochloric acid he added to a solution of flesh in liquor potassæ, some sulphurerted hydrogen is evolved and is detected by its staining paper, moistened with a solution of sugar of lead. The discolouration which a silver spoon suffers by being used in eating eggs, depends on the formation of sulphuret of s.lver. If some white of egg, boiled hard, be decomposed by heat, it evolves hydrosulphuret of ammonia, which discolours paper moistened with sugar of lead. Caseine also contains sulphur, as does also hair and bone. The efficacy of a mixture of finely powdered litharge and lime (hair dye) in staining the hair, depends on the formation of the black sulphuret of lead. The lime serves to form, in the first place, a sulphuret of calcium with the sulphur of the hair. Animal charcoal (bone black) evolves sulphuretted hydrogen, when treated with hydroehlo-

- Traité de Chimie, t. i.
- + Pharmaceutisches Central Brutt für 1838, p. 885.
- Journal de Pharmacie, t. xxvii. p. 453, 1841. Thomson's Chemistry of Organic Bodies, p. 840.
- Andeitung zur chemischen Zergliederung der Ve-getahilien überhaupt und der Getre deurten insbesondere. Leipzig, 1831. The nature of the manure modifies the quantity of earthy phosphates found in
- ¶ Truité de Chimie, t. vii. p. 604. ** Comptes Rendu des Seances de l' Academie des Sciences, Aont, 1841.
- †† Recherches expérimentales sur le Sang Humain, Paris, 1830.
 - ## Journal de Pharmacie, t. xxvii, p. 15.

^{*} Voyage to the South Seas in 1787-9, p. 190. Lond, 1792.

⁺ The Highlanders, who it is well known are immoderate drinkers, pretend that spirit does not intoxicate in the Hills as it would do in the Low Country. (See Letters from a Gentleman in the North of Scottand to his friend in London, vol. 2, p. 161, 5th Ed., Lond, 1818).

[#] The effect of alcohol on the stomach may be ascribed to its topical chemical action. But in connection with its well-known action on the brain, and its tendency to produce granulated liver (the drunkard's or gin liver), it deserves to be noticed, that alcohol has been detected in the brain and liver of those who have died under its influence. (See Pereira's Flements of Materia Medica, vol. 1, p. 359, 2d edit.)

[†] Ann. de Chem. et de Physique, p. 190, 1834.

[‡] Journ. de Chem. Med t.1cr 11. Serie p. 311, 1835.

rie acid, showing that sulphur is a constituent of booes.

The existence of sulphur in so many animal substances, serves to explain the evolution of sulphuretted hydrogen and hydrosulphuret of ammonia, by putrifying animal substances; excrement for example. Indeed, so much sulphur is obtained in this way, that some geologists have considered it to be a source of at least part of the native sulphur of the mineral kingdom.* That sulphuretted hydrogen is evolved in privies is proved by its darkening the white paint, and by its blackening silver articles (watches, coin, spoons, &c.) which have accidentally fallen into the night soil.

The sulphur of the metamorphosed tissues is thrown out of the animal system, principally in the form of sulphuric acid. The urine contains sulphates in part formed by the action of the oxygen of the arterial blood on the sulphur of the tissues. If the hollow of a tooth be filled with an amalgam of silver, a black crust of metallic sulphuret is speedily formed on it. Moreover, the leaden blue line, which borders the edges of the gums attached to the neck of the teeth, in persons whose constitutions are under the influence of lead, t is probably sulphuret of lead.

The system derives its sulphur from animal, vegetable, and mineral substances, used as food. Thus flesh, eggs, and milk contain it. Vegetable fibrine (as of corn), vegetable albumen (as of almosd, nuts, cauliflowers, asparagus, and turnips), and vegetable caseine (as of pease and beans) contain it. Lastly, sulphur, in the form of sulphate of lime, is a constituent of common and spring water.

TABLE OF THE QUANTITY OF SULPHUR IN SOME ALIMENTANA SUBSTANCES.

1000 Parts of Quantity of Sulphur. Fibrine 3,6 to 3.8 Mulder 6.8 Ditto. 3.6 Ditto. Albumen of blood...... Cascine..... albumen..... and caseine. Liebig.

Volatile oil of black mustard Sulphosinapisine (in white mustard) 96.57

Celery, rice, hops, ginger, and many other vegeta-ble substances contain sulphur. Assafætida, which Dr. Ure says contains two per cent of sulphur, is considered by some oriental nations as " food for the gods."

An infusion of white mustard strikes a blood red colour with the persalts of iron, owing to the presence of sulphosinapisine. Both black and white mustard flour charred in a tube, evolve a sulphuretted vapour, which blackens paper moisteded with a solution of acetate of lead. In the same way sulphur may be detected in cabbage, potatoes, and many other vegetable toods. If pease or almonds be boiled in a solution of caustic potash, and then hydrochloric acid be added, the evolved vapour blackers paper moistened with a solution of lead, thus showing that these seeds contain sulphur.

Inon.-The ashes of most animals and vegetables yield traces of iron.

This metal is an essential constituent of the blood discs. From 10,000 parts of blood we can obtain about eight parts of peroxide of iron-equal to 5,6-10 parts of the pure metal. The hair also contains iron-the black the most, the white the least. Braconnot likewise found it in the gastric juice.

Liebig regards the compound of iran in the blood as an oxidized one. In the arterial blood, it is saturated with oxygen (hydrated sesquioxide); but during

* Brocchi, quoted by Leonhard in his Handbuch der Oryktognosie, p. 599, Heidelberg, 1826. When the gate St. Antoine at Paris was pulled down in 1778, there were found in the ditches of that place, where many years (300?) previously excrement had been deposited, grains and crystals of sulphur de posited on line. (Fougeroux de Bondarey, Mon. de l'Academir Royale des Sciences Anneé, 1780, p. 105.) It is stated in the Athenaum, (Dec. I, 1838, p. 860), that Maravigno "disputes the assertions of Prof. Gemellaro, who pretends that sulphur owes its origin to the decomposition of mollusca.

f See Dr. Burton's paper on this subject, in the

Medico-Chirurgical Transactions, 2nd Series, vol. v. p. 63, 1840,

its oxygen,; and becomes protoxide of iron, which combines with carbonic acid, one of the products of the oxidation of the metamorphosed tissues, and forms carbonate of the protoxide of iron, which exists in venous blood. This, in the lungs, absorbs the same amount of oxygen it had lost, and gives out its acquired carbonic acid.

Whether this be the true theory of respiration or not I shall not stop to inquire, though the fact, that for every volume of oxygen absorbed by carbonate of the protoxide of iron no less than four volumes of carbonic acid are evolved, appears to me to present some difficulties to its admission, since we know that in the process of respiration, the quantity, by volume, of carbonic acid expired, is not quite equal to that of the oxygen which has disappeared.

Iron is found in the yolk of the egg and in milk, foods intended by nature for the nourishment of young animals. In the milk it exists, according to Berzelius, as phosphate of iron. The flesh on which we feed, as well as most vegetables (mustard, cabbage, potatoes, pease, cucumbers, &c.,) supply us with tron.

CHLORINE. - This element, continues Dr. Pereira, is a constituent of the blood, and of the gastric juice; and it is found in several of the excretions, as the urine, saliva, tears, and faces. In the blood it exists in combination with sodium.

As the chloride of sodium of the blood is constantly being consumed in the formation of the gastric juice and other secretions, this salt becomes an indispensable article of fuod. To the embryo chick, nature has supplied it in both the white and yolk of the egg, while the young mammal finds it in his mother's milk. The appetite which all animals evince for salt, shows that it is an agent indispensable for their health. The common salt, therefore, which we consume at our tables is not to be regarded as a mere exciter of the palate; it is an essential article of food. It contains 60 per cent, of chlorine, It is probable, that besides furnishing the secretions with salt and its constituents, the salt of the blood performs some important function in relation to the blood discs. Every one well knows that in cholera, and some other maladies, the blood, which is deficient in its saline parts, has a very dark or black appearance.

But one of the most important uses of chloride of sodium (common salt) is the formation of hydrochloric acid, an essential ingredient of the gastric juice. By what particular agency, whether by electricity or afficity, this decomposition is effected, we are unable to determine precisely, but that the hydrochloric acid of the gastric juice derives its chlorine from the chloride of sodium, can scarcely be doubted. Its hydrogen is probably derived from water, the oxygen of which at the same time unites

with sodium to form soda.

The gastric juice consists essentially of water, gastric muens, and hydrochtoric acid. As mucus is a fluid secretion of all the mucous membranes, while the mucus of the gastric membrane alone yields with water and hydrochloric acid a digestive liquor, it is probable, that the mucus of the stomach contains some peculiar organic principle, not hitherto isolated, on which its peculiar properties depend. To this principle, the term pepsin (from $\pi \epsilon \pi \tau o$, I digest) has been applied. An artificial digestive liquor is readily prepared by macerating the lining membrane of the fourth stomach of the calf in water, to which a few drops of hydrochloric acid have been added. If small cubes of white of egg, boiled hard, be macerated in this liquor, their more superficial parts become translucent, and their edges and angles rounded. Very gradually they are dissolved, prescuting during the process, the appearance of a cube of soap, dissolving in water, and having a gelatiniform character. The yolk of egg yields a turbid liquor, owing to the presence of fat globules. A piece of cooked beef-steak becomes pulpy at the surface, and gradually distilves.

These changes are produced neither by an infusion of the stomach, nor by diluted hydrochloric acid

‡ The facility with which, under certain circumstances, the peroxide of iron loses part of its oxygen has been recently applied by Sir J. F. Herschel in the production of photographic pictures, termed ferrotypes,

its passage through the capillaries, it loses part of employed separately; but by the two conjointly they are readily effected.

Now Liebig asserts "that the substance which is present in the gastric juice in a state of change, is a product of the transformation of the stomach itself;" and he goes on to state that "the fresh lining membrane of the stomach of a calf, digested with weak muriatic acid, gives to this fluid no power of dissolving boiled tlesh or coagulated white of egg; but if previously allowed to dry, or if left for a time in water, it then yields to water, acidulated with mumatic acid, a substance in mionte quantity, the decomposition of which is already commenced, and is completed in the solution."

But several circumstances appear to me to be opposed to this view. The fact ascertained by Schwann, that the solvent principle of the digestive fluid can be precipitated from its neutral solution by acetate of lead, and be obtained again in an active state from the precipitate by meaos of sulphuretted hydrogen, is apparently inconsistent with Liebig's idea, that this principle is matter in a state of decomposition or transformation. Moreover, if the essential part of the gastric juice-that by which digestion is effected-be a mere transformation of the stomach, how is it that other parts of analogous structure and composition do not suffer the same transformation? I have tried to obtain a digestive liquor from the second stomach of the calf, and from the bladder, but in vain. How is it that this fancied transformation goes on, during life, only when solicited to do so by the presence of aliment or by mechanical irritation? Dr. Beaumont ascertained that pure gastric juice will keep for many months without becoming fetid: a fact scarcely explicable on the hypothesis that its activity depends on a principle in a state of decomposition. I find that while acidulated infusions of the second stomach of the calf and of the bladder soon become putrid and fetid, that of the fourth stemach remains remarkably free from uppleasant smell for several weeks. Lastly, I find, contrary to Liebig's statement, that a digestive liquor can be prepared from the fresh undited fourth stomach of a ealf.

I cannot agree with Liebig, that digestion is a process analogous to fermentation; that, in fact, it is nothing more than the transformation of food, effected by the contact of matter in a state of decomposition. If it were, a small quantity of the gastric juice ought to be capable of effecting the digestion of an unlimited quantity of food. Now. the experiments of Dr. Beaumont on the natural gastrie juice, and of Schwann on the artificial digestive liquor, prove that this is not the case. Both found that only a certain amount of food could be digested with a given quantity of gastric juice; and Dr. Beaumont observes, that "when the juice becomes saturated it refuses to dissolve more; and if an excess of food have been taken, the residue remains in the stomach, or passes into the bowels in a crude state."

Somium .- The observations on chlorine apply in part to sodium, since these two elementary substances are usually taken into the system together, in the form of chloride of sodium, which is a constituent of the blood. I have already stated that common salt, by the aid of water, is converted in the system into hydrochloric acid (found in the gastric juice) and soda. The latter substance exists in the blood in combination with albumen (albuminate of soda). While potassium is the usual metallic basis of the alkaline salts of plants, sodium, on the other hand. is the basis of the alkali and alkaline salts of animals. All the animal tissues contain sodium, and their aslies (as of feathers, bristles, hairs, &c.) accordingly communicate a yellow tinge to flame.

The common salt, used at our tables as a condiment, contains 40 per cent. of sodium. The soda, which exists in the blood in combination with albumen, passes out of the system in union with organic matter (C^{70} H⁶⁶ N² O²²) represented by choleic acid: in other words, bile may be represented as choleate of soda-that is, it contains the elements of this salt, though not necessarily arranged as such. Lastly, "the soda, which has been used in the vital processes, and any excess of soda, must be expelled in the form of a salt, after being separated from the blood by the kidney." (Liebig.) The acids with which, in the flesh-cating animals, the soda comines, are sulphuric and phosphoric. These are in distillation had a strong smell of storax, and was The manufacturing chemists in France follow this art formed in the system by the oxidation of the sulneutral to test paper. Either, after agitation with it, process: I have adopted it for many years at the art formed in the system by the oxidation of the sulhur and phosphorus of the metamorphosed tissues.

CALCIUM. - This is a constituent of all animals. he booes of the vertebrata (as man) contain subhosphate (principally), but mixed with carbonate, f lime; while the shells and crusts of the inverterated animals (as lobsters, oysters, &c.) consist of arbonate (principally), mixed, with sub-phosphate, f lime. Muscles, nervous matter, the liver, thyroid land, and, indeed, all the animal solids, contain alcium, usually combined with oxygen and phoshoric acid; the blood also contains it.

It is requisite that the food of young animals should ontain sub-phosphate of lime for deposition in the ones; accordingly we find it in the egg and in milk. The more mature animal is supplied with it in the various forms of animal food on which he feeds, as well as in most vegetables. Seeds (especially corn),

paions, garlie, &c. contain it.

Oxalate and other vegetable salts of lime are found in some vegetable foods; thus, the stalks of rhubarh, which are eaten in tarts and puddings, contain crystallized oxalate of lime. It is the same salt which gives to Chinese and Russian rhubarb its grittiness when chewed. Gum and unrefined sugar yield ashes containing calcium; and the well known fact, that strong unrefined sugar becomes by keeping weak, is ascribed to the presence of lime, which by its action on sugar converts it into a soft, clammy, gummy matter. Grapes also contain calcium. Another source of calcium is ordinary water, which contains both carbonate and sulphate of lime.

MAGNESIUM .- Minute quantities of this metal are found in the teeth, bones, nervous matter, the thyroid gland, and several parts of the body; it exists also in the blood. In every case, I believe, of its occurrence in the animal body it is found in combination with oxygen and phosphoric acid, forming phosphate of magnesia; and in many cases with ammonia also,

Its source is of course to be found in the foods; not only the flesh but also the vegetables which we eat contain it-as seeds (especially of the cereal grasses) and potatoes. I have already referred to the large intestinal concretions (ammoniacal phosphate of magnesia), found in the intestines of horses, and which are derived from the busks of the oats on which these animals feed.

Polassium. - Minute traces of potassium have been detected in the solids (cartilage, liver, &c.), and in some of the fluids (blood, urine, milk, &c.), Liebig states, that "without an abundant supply of potash, the production of milk hecomes impessible;" but I know not on what authority he makes this statement, for Schwartz found only seven parts of chloride of potassium (equivalent to 3.68 parts of potassium) in 10,000 parts of milk-a quantity apparently too minute to be of much importance.

The sources of potassium in our system are both animal and vegetable food. Most plants which grow inland contain it; thus, it is found in grapes and potatoes. Its presence may be readily detected : burn a grape stalk in the candle - the minute ash obtained at the point of the burnt stalk will, if introduced ioto the outer or almost colourless cone of the flame, communicate a violet tint, thus demonstrating the pre-

sence of potash.

FLUORINE.—Berzelius detected minute quantities of fluoride of calcium in the bones and teeth of animals; but, more recently, Dr. G. O. Rees failed to detect it. If fluorine be a normal constituent of the body, it is doubtless introduced into the system in the small portions of the bones of animals occasionally swallowed with their flesh, for it cannot be derived from plants, since it has never been detected in these bodies. It is remarkable, however, that fluoride of calcium is abundant in fossilized bones, and in the human bones found at Pompeii and Herculaneum.

The Change which Extract of Rhebanh Unprincers in Kriping .- It has been observed some time ago, by Mr. Landerer, that old extract of thubarb, when mouldy, acquires a strong smell of storax. This has been confirmed by M. Reinsch, in case of fluid extract of thubarb which had been kept for several years in an unopened bottle the extract being covered with a film of mould. This liquid extract was submitted to distillation, and afforded a slightly turbid water, with a great number of small drops of oil. The product of the with the vapour of calomel, into a large receiver. of Mr. Danu, of Stuttgardt, p. 523.

becomes slightly coloured yellow and acquires the odonr of storax; after the evaporation of the ether on a watch-glass, there remains only a few drops of auaromatic oil, smelling strongly of storax, but which is very volatile, so that is about an hour no trace of the smell could be discovered on the glass. This smell of storax in extract of rhubarb, which has become mouldy, arises from the formation of a peculiar oil. There will probably be many more of these oils discovered, originating in the petrefaction of vegetable matter. This oil of rhubarb appears to be analogous to the oil with the smell of musk, discovered by M. Rossignon, in decayed apples, which he has named malvile, and which is composed of C H N O .- Repertorium fur die Pharmacie.

OIL OF BITTER ALMONDS is a most deadly poison in large doses; it was once extensively used in medicine, and is still very frequently employed by confectioners and others for flavouring custards, puddings, liqueurs, and sweetmeats. The bitter almond is the kernel of the amygdalus communis, a tree which is indigenous to Barbary, and is extensively cultivated both in the temperate parts of Europe and in Asia. It is well known in our gardens, and is distinguished by bearing its flowers before any of the leaves are produced, a circumstance which has been happily alluded to by Thomas Moore in " Lalla

"The hope, in dreams, of a happier hour That alights on Misery's brow, Springs out of the silvery almond-flower. That b'ooms on a leafless bough.'

The sweet and the bitter almond are derived from the same species, and no botanical difference is found to exist between them, although they differ so widely in their taste and other properties. They are in fact only varieties of the same species; the two plants are said to be convertible into each other-the sweet variety becoming bitter by neglect; the bitter becoming sweet by cultivation; and the seed of either variety producing plants of both. When the bitter almonds are subjected to pressure, they yield a sweet oil, altogether analogous to that produced by sweet almonds; but when the cake of bitter almonds is mixed with water and subjected to the action of heat, a volatile oil passes over of a very peculiar nature, which is the true oil of bitter almonds. This oil does not appear to exist ready formed in the hitter almond, but is produced only when the almond pulp comes in contact with water; for it cannot be separated by any process whatever from the almond, without the cooperation of water. The presence of prussic acid in this oil may be proved by dissolving it with agitation in water, and treating the solution with caustic potash, followed by sulphate of iron and sulphuric acid. The bitter almond acts upon the animal system in the same way as hydrocyanic acid, but it likewise excites at times signs of pritation. The symptoms it produces in animals are trembling, weakness, palsy, and finally stupefaction. Orfila states, that twenty bitter almonds will kill a dog in six hours, if the gullet is tied to prevent vomiting; but if vomiting be allowed, the animal will recover. He also found that six bitter almonds in coarse powder applied to a wound in the thigh of a middle-sized dog caused death in four days. This oil is hardly inferior in petivity to prussic acid. A single drop of it applied by Sir Benjamin Brodie on the tongue of a cat, caused violent convulsions and death in five minutes. But if this oil be entirely freed from prussic acid, it is not more poisonous than any other essential oils though it still retains its characteristic and grateful flavour. As the oil of bitter almonds is very extensively employed in flavouring articles of confectionery, a German writer suggests the propriety of removing the prussic acid from the oil by repeated distillation with eaustic potash, which removes the poisonous ingredient, but does not at all injure its other properties.—Mr. Semple in the Pharmacentical Journal.

PRITABATION OF CALOMEL. In France and in lingland medical rien almost exclusively employ calonicl prepared with steam; it is found to be more active and more certain in its effects. The mode of preparation generally adopted is that of Joseph Jewel, with the modifications made by M. Ossian Henry. It consists in conducting steam, together

Pharmacie Centrale; but am far from being satisfied with it. The operation is difficult to conduct; it requires great expertness of manipulation, and too frequently is attended with accidents, which cause the loss of a great part of the product. Moreover, it must be admitted, that the calomel prepared with steam in France is neither so white nor so finely divided as that which is sent from England. I have now to present, for communication to the academy, a mode of preparation very superior to any other that is known to us. I would not occupy the attention of the learned academy with a simple manufacturing process, if it was not one of a peculiar character being applied to a product, in the preparation of which we have been unable, up to the present day, to compete with the English manufacturer. For the vapour of water which is interposed between the particles of the vapour of calomel, and which prevents them from uniting, I substitute a current of air, which, passing over the heated calomel, eoters the vapour as it forms, and causes it to condense in a subtle powder.* For this purpose, I heat the calomel in an earthen tube, passing through a furnace, and direct a constant current of air through the interior of the tube, by means of a small blower, so as to carry the vapour into a receiver. If the operation be conducted with a straight tube, a part of the calomel might be carried to a distance of more than twenty yards. To obviate this inconvenience, I cause the end of the tube to dip into water, and the calomel is thus wetted and precipitated in fine powder. This kind of termination to the apparatus is all that can be desired. It only remains for me to perfect the process by ascertaining the best form and material for the vessels in which the calomel is heated. I have not been able to meet with such, ready made, as combine the essential conditions, so that I am obliged to defer to another time the complete description of the process; but I may observe, that even my first attempts at the operation have proved quite successful. I think the same principle of operation may be applied to the division of other volatile bodies .--By M. Soubeirau. Comptes Rendus.

BRANDISH'S SOLUTION OF POTASH. Best American Pearl-ashes...... 6 pounds Quick-lime, fresh prepared...... Wood-ashes (from the Ash) of each... 2 pounds

Boiling water 6 gallons Add first the lime, then the pearl-ashes, and afterwards the wood-ashes to the boiling water; then mix. In twenty-four hours, the clear liquor may be . drawn off.

LINIMENTUM HADRARGYRI NITRATIS.—There is preparation of this name in the Pharmaeopæ a Maneuniensis, 1827, under the authority of Drs. Holme, Mitchell, Lyon, Carbett, Bradsley, and Hulme; and of Messrs, Simmons, J. Thorpe, Ransome, Ainsworth, R. Thorpe, and Wilson, Surgeons,

> R unguenti Hydrargyri Nitratis šitss. Carati Simplicis sviiss. Oliva Olei, fav. Misce.

ON THE ACTION OF CARBONATE OF POTASII ON GUM RESINS.

Some years since, Mr. Halse's attention was drawn to the action of carbonate of potash on myrrh, which induced him to try its effect in reducing other gum esins, and the result was perfectly satisfactory.

With regard to myrth, if one part of carbonate of potash be added to two parts of myrrh in the lump. and rubbed together, the alkali produces complete saponification; and it to this be added medicated or distilled water, we obtain an elegant emulsion of myrrh, and nearly the whole of the gum resin is retained in suspension, which would not be the case without the aid of the carbonate of potash. If the compound mixture of iron is prepared by triturating the myirh with carbonate of potash, then with the usual proportion of sugar, using the raw instead of refined, adding first the rose water, then the sulphate of iron. powdered, and, lastly, the spirit of nutmeg, it will

* Dr. Christison alludes to an analogous process in his Dispensatory, which he gives on the authority

not be an unsightly mixture, and the precipitate will be very triffing.

Again, in the compound pill of iron, if carbonate of potash in used instead of carbonate of soda, and raw or muscovado sugar in lieu of the refined, a pill mass can be compounded with less trouble than by following the college formula, and which will retain a convenient pilular consistency for any reasonable period.

Take of,

Myrrh in lump, two drachms, reduce it to powder in an iron mortar by

Carbonate of potash, one drachm, then add Sulphate of iron, powdered, one drachm,

Raw sugar, one drachm. Mix, and beat all into a mass, without any liquid. Attention to this last remark is necessary, for the addition of any liquid renders the mass too soft, the raw sugar being suffi-

cient to bring it to a proper consistence.

The solubility of this pill is such, that after having been made six months, Mr. H. put two pills, of five grains each, into a glass of water, about the temperature of the stomach, and they were completely disintegrated in the course of two hours. If water will thus serve to dissolve these iron bullets, as they are sometimes termed, we may expect the fluid of the stomach would have a much quicker action upon them.

The compound galbanum pill, can be as easily and as readily prepared as the preceding one, and becomes as tractable and as convenient for making into pills as any other mass.

Take of

Myrrh in lump Sagapenum of each one drachm and a half. Galbanum, one drachm.

Assafeetida, half a drachm. Triturate these with two drachms of carbonate of potash, in an iron mortar, until the whole are sufficiently reduced, add

Raw sugar, two drachms, and beat altogether into a mass, without any liquid, which mass will retain its consistency for any reasonable period.

The pill of aloes with myrih, compound squill pill, compound rhubarb pill, and other similar preparations, will be considerably improved if made with the assistance of carbonate of potash and raw sugar; but with every other than the compound galbanum pill and compound pill of iron a small portion of water must be used. The raw sugar (saecharum non-purificatum), as an ingredient in compound pill of iron, is decidedly preferable to the refined, which alone will not form a mass. In all pill masses and mixtures containing gum resins, the Pharmacopolist will find it preferable to use ingredients that have been powdered in his own premises.

ON THE PREPARATION OF EXTRACTS.

By the term ' extract' is meant a medicinal preparation obtained from a vegetable or animal substance by the dissolving action of a proper menstruum, and reduced to either a soft or solid consistence by the evaporation of the solvents. Extracts vary much in their nature, in consequence of the great number of proximate principles contained in the plants and animals from which they are derived, and dependent also in part on the character of the solvent that has been employed. Thus, taking the vegetables for example, extracts are commonly prepared from them either with their juice, or from aqueous or alcoholic infusions: in the first two cases, they may contain the gum, sugar, salts, regetable ocids, and alcalies, colouving and tannic matters; while the alcoholic menstruum may dissolve the succharine, suline, colouring, and resinous matters. It must be self-evident that a classification founded on the chemical analysis of the extracts, containing, as they do, a very complicated series of proximate principles, would be both exceedingly difficult and unsatisfactory; to a certain extent, however, the system has been adopted, and these preparations are not unfrequently spoken of under the respective titles of gummy, gummo-resinous, saponaceous, and resinous, the predominance of one of the principles giving occasion for the name, but it does not at all follow that therefore no other proximate principle is present. Henry and Guibourt, in their Pharmacopie Raisonnée, divide extracts into vegetable and animal. and the former into inspissated juices, aqueous and alcoholic extracts.

Extracts are obtained from plants either by the evaporation of their juices, or by the intermedium of water, alcohol, or ether. In their preparation, the essential point is to obtain the active principle of the plant in solution as free as possible from those that are inert, and afterwards to evaporate this solution to such a degree of dryness, as to preserve the chemical properties and medicinal powers of the drug uninjured. To effect this purpose with the narcotic and some other plants, the process of inspissating the juice is now pretty generally recommended by authors on pharmacy, and there cannot be a doubt that the modification of the plan by the inspissation by spontaneous evaporation, introduced by Dr. Houlton, is a most valuable improvement, and deserving to be universally adopted. Storck, a physician at Vienna, who introduced the extract of cicuta, and other narcotics, as a cure for schirchus, used to prepare them in a manner essentially different from the process that was then followed. He advised, with respect to the conium, belladonna, aconite, and stramonium, that the fresh juice of the plants should be obtained, and without filtering or any process of deparation, evaporated at a moderate heat, the preparation being kept continually stirred: and he thus obtained extracts far superior and much more active than those in ordinary use. Dr. Houlton was led to modify this process in the following manner: he says, about the year 1805, four years before the herbaceous extracts were introduced into the London Pharmacopæia, 1 first made the extractum cicutæ, (now the extr.: conii) precisely after the process of Storck, when I accidentally left some juice for some hours exposed to the atmosphere, and found it afterwards inspissated, of a beautiful green colour, and plastic. For a few years I occasionally made a small quantity of extracts in this way, merely on account of the beauty of the preparation, for, as it was not made secundem artem, but secundem naturam, I had no idea that it could be worthy the attention of a scientific profession. However, as years rolled on, and I began to think for myself, I determined to try the effects of this spontaneous extract. When I first used it, I do not exactly remember, but from about the year 1824, I have not used any other extract of conium in my own practice, being so well satisfied with its superiority over that of the pharmacopæia. The preparation can be readily made in the following manner:-the expressed juice is to be exposed to a current of dry air, in shallow dishes at the ordinary temperature, the rapidity of the evaporation being in an inverse ratio to the quantity of the piece in each dish: common table dishes answer the purpose very well. The current of air may be produced in any spare room, if the window sash be opened but a few inches, and the door of the room be also kept open; the dishes may be placed upon a common table near the window; if the 100m be in the upper part of the house, there will be but little dust brought into contact with the extracts. Some chemists seek to aid evaporation, by heating the current of air which is passed over the juice.

The mode of preparing these extracts was first brought before the public in the Transactions of the Society of Arts, for 1826. Soon afterwards they were brought before the Medico-Botanical Society as remedial agents; the process was detailed in some of the medical journals, and is adopted in the last edition of the Edinburgh Pharmacopaia; in Stephenson and Churchill's Medical Botany, they were favourably noticed; the process is also mentioned with approbation in the last editions of Dr. A. T. Thomson's Materia Medica, and of Dr. Christison's Dispensatory. The last named physician says, that extracts thus prepared will keep good for three years at least, and that they deserve to come into general use.

Storck's plan was objected to at the time on the ground that the extracts so prepared contained a large quantity of green colouring matter and albumen, which were probably almost inert; to which he replied, that experience showed that his preparations were the best. He was right; but the value of his extract did not depend on the presence of these inert matters, but on the low temperature at which they were prepared, and the continual agitation to which they were subjected during the evaporation. Henry and Guilbourt advise a modification of Storck's plan, which consists in depriving the juices of their colouring matter and the allower they contain and then re-

pidly evaporating, by the aid of a sand-bath, the juice being continually stirred, so as to constantly renew the surface.

The process of evaporation in vaeno has many advocates; it consists simply in placing the ju ce to be evaporated in an intermediate pan with a covering vessel, having function through which the process may be watched, and tubes for conveying steam. The vessels being strongly secured together, and a division effected between them, steam is let into the upper vessel at a very high temperature, and suddenly condensed by the application of cold water externally; this is repeated until a vacuum is effected, and the partition between the two vessels is then withdrawn, the air in the pan ascending. The admission of steam and its condensation is then to be repeated until the vessels are as completely a vicuum as possible; after which a slight degree of heat will serve to effect evaporation. While speaking of this process, Guibourt observes, that it is applicable only on a very small scale in chemical analysis, or else on a very large one, and has besides, the disadvantage of not destroying the life of organised germs which may exist in the juices, or which have been deposited during the preparation, so that it is not uncommon to see extracts thus made covered with mould, or filled with the larvæ of insects.

Aqueous extracts are prepared either from the cold or the hot infusion or the decoction. The plant from which they are obtained is previously dried, water is employed as the extractive menstruum, when the principal medicinal proximate principles are soluble in it; if resin be the chief ingredient, alcohol must be had recourse to for the preparation of the extract. The water employed should be distilled or rain water, in order to avoid increasing the quantity of the extract by salts foreign to its nature. Guibourt advises that vegetable extracts should be made by infusion and subsequent maceration, io the majority of cases in preference to decoction, the article thus obtained being generally finer, more homogeneous, more soluble in water and alcohol, and a larger quantity being commonly obtained. Cinchona is an exception to this. Whichever way the active principles of the plant are separated, the solutions may be inspissated either by the process in vacuo already mentioned, by distributing the solution on a number of flat vessels on a stove, by the heat of water or sand bath, or over an open fire. It may be well to observe that the quantity of fluid should be as small as may be consistent with the perfect extraction of the active matter, and the eva-poration should be conducted as rapidly as

Alcoholic extracts, which were formerly but little used, are now more commonly prescribed, because the spirit can dissolve a large number of the active principles, leaving untouched the inert starch and inuline, and thus the medical virtues are contained in a smaller volume. In the Pharmacopée universelle of M. Mohr, certain alcoholic extracts of the narcotie plants are mentioned of exceeding power and efficacy. They are prepared with the juice of the recent plant, dep ived of its albumen and chlorophyllum by heat, evaporated rapidly in a sand-bath to the consistence of syrup, then mixed with an equal quantity of anhydrous alcohol, which precipitates the gum and a large proportion of insoluble salts, and is finally evaporated to the consistence of extract. These are very powerful. There are very few extracts made with either, and they are best prepared by lixiviation; they are generally composed of fatty or resinous matters, united to some other active principles. The evaporation of the alcoholic and etherial extracts is so conducted at first, as to recover as much as possible of the menstruum, and the remaining liquor is cautiously evaporated in a water-bath.

The extracts of conium and hyoscyamus should be made from the plant when just come into flower, or soon afterwards. The plants are never better for extract than when they just come into flower; from that period the lower leaves begin to die, and one week will deprive the plant of some of its best leaves, or render them of very little use for medicinal purposes.

were prepared, and the continual agitation to which they were subjected during the evaporation. Henry and Guibourt advise a modification of Storck's plan, which consists in depriving the juices of their colouring matter and the albumen they contain, and then ra-

ference, and will then resist the process of inspissation strongly; and even if overcome by management, the extract will have an acetous odour, and will not keep well. If the extract has an acid odour, it is a sure proof that the process has not been carefully conducted. It is highly important that the roots should be fresh from their native localities. If they have been taken up and kept in sand for several weeks before they are used, they will not realize the expectations of the manufacturer. Good extract of l'araxicum should be plastic, saponaceous, and slightly bitter.

The various modes of preparing extracts just mentioned, by decoction, by evaporation of the expressed juice, by heat and by spontaneous evaporation, were not unknown to the ancients, as the following extracts from the work of Dioscorides will shew. With respect to the preparation by decoction, when speaking of gentian, he observes, "Contusa radix quinque diebus aqua maceratur; postea in eadem tantisper decoquitur, dum extent radices : et ubi refrixit aqua, linteo excolatur: mos discoquitur, dum mellis crassitudo fiat, fietilique reconditor :- exaporation by heat : the evclamines: - exprimitur tusa radice succus, et ad mellis crassitudinem decoquitur : - spoutaneous eraporation :- the chehdonium :- foliis, caule, radice, succus exprimitur, ineunte astate, et siccatus in umbrà, digeritur in pastillos. A similar process is advised for preparing the extracts of conium, hyoseyamus, and solanum.

MEDICAL NEWS.

ROVAL SOCIETY .- On the Nerves, by James Sturk, M.D .- The author gives the results of his examinations, both microscopical and chemical, of the structure and composition of the nerves; and concludes that they consist, in their whole extent, of a congeries of membranous tubes, cylindrical in their form, placed parallel to one another, and united into fasci culi of various sizes; but that neither these fasciculi nor the individual tubes, are enveloped by any filamentous tissue; that these tubular membranes are composed of extremely minute filaments, placed in a strictly longitudinal direction, in exact parallelism with each other, and consisting of granules of the same kind as those which form the basis of all the solid structures of the body; and that the matter which fills the tubes is of an oily nature, differing in no essential respect from butter, or soft fat, and remaining of a fluid consistence during the life of the animal, or while it retains its natural temperature, but becoming granular or solid when the animal dies, or its temperature is much reduced. As oily substances are well known to be non-conductors of electricity, and as the nerves have been shown by the experiments of Bischoff to be among the worst possible conductors of this agent, the author contends that the nervous agency can be neither electricity nor galvanism, nor any property related to those powers, and concieves that the phenomena are best explained on the hypothesis of undulations or vibrations propagated along the course of the tubes, which compose the nerves, by the medium of the oily globules they contain. He traces the operation of the various causes which produce cessation in giving rise to these undulations, and extends the same explanation to the phenomena of voluntary motion, as consisting in undulations, commencing in the brain, as determined by the will, and propagated by the muscles. He corroborates his views by ascribing the effects of cold in dominishing or de-troying both sensibility and the power of voluntary motion, particularly as exemplified in the bybernation of animals, to its mechanical operation of diminishing the fluidity, or producing solidity, in the oily medium by which these powers are exercised

Experimental Researches in Electricity (18th series), by Michael Faradan, Esp., section 25. On the Electricity evolved by the Friction of Water and Electricity evolved by the Friction of Water and Steam against other Bodies.—The object of the experiments related in this paper is to trace the source of the electricity which accompanies the issue of steam of high pressure from the vessels in which it is steam of high pressure from the vessels in which it is tountained. By means of a smitable apparatus, which the author describes and delineates, he found that electricity is never excited by the passage of pure steam, and is manifested only when water is at the same time present; and hence he concludes that it is altogether the effect of the friction of globules of

water against the sides of the opening, or against the substances opposed to its passage, as the water is rapidly moved onwards by the current of steam. Accordingly it was found to be increased in quantity by increasing the pressure and impelling the force of steam. The immediate effect of this friction was, in all cases, to render the steam or water positive, and the solids, of whatever nature they might be, negative. In certain circumstances, however, as when a wire is placed in the current of steam, at some distance from the orifice whence it has issued, the solid exhibits the positive electricity already acquired by the steam, and of which it is then merely the recipient and the conductor. In like manner, the results may be greatly modified by the shape, the nature, and the temperature of the passages through which the steam is forced. Heat, by preventing the condensa-tion of steam into water, like isc pr years the evolution of electricity, which again speedily appears by cooling the passages so as to restore the water which is necessary for the production of this effect. The phenomenon of the evolution of electricity in these circumstances is dependent also on the quantity of the fluid in motion, more especially in relation to its conducting process. Water will not excite elec-tricity unless it be pure; the addition to it of any soluble salt or acid, even in minute quantity, is sufficient to destroy this property. The addition of oil of turpentine, on the other hand, occasions the development of electricity of an opposite kind to that which is excited by water, and this the author explains by the particles or minute globules of the water having each received a coating of oil in the form of a thin film, so that the friction takes place only between that external film and the solids, along the surface of which the globules are carried. similar, but a more permanent effect is produced, by the presence of olive oil, which is not, like oil of turpentine, subject to rapid dissipation. Similar results were obtained when a stream of compressed air was substituted for steam in these experiments. When moisture was present, the solid exhibited the negative. and the stream of air positive electricity; but when the air was perfectly dry, no electricity of any kind was apparent. The author concludes with an account of some experiments in which dry powders of various kinds were placed in the current of air; the results differed, according to the nature of the substances employed, and other circumstances.

On the Structure and Mode of Action of the Iris; by

C. R. Hall, Esq.

After reciting the various discordant opinions entertained at different periods by anatomists and physiologists, relative to the structure and actions of the ris, the author proceeds to give an account of his microscopical examination of the texture of this part of the eye, in different animals. He considers the radiated pheæ, which are seen on the wen in manimalia, as not being muscular; but he agrees with Dr. Jacob in regarding them as being analogous in structure to the ciliary processes. The white lines and elevations apparent on the anterior surface of the human iris, he supposes to be formed by the ciliary nerves which interlace with one another in the form of a plexus. The iris, he states, is composed of two portions; the hist consisting of a highly vascular tissue, connected by vessels with the choroid, eithary processes, sclerotica, and cornea; and abundantly supplied with nerves, which, in the human iris, appear, in a front view, as thread-like strice, and which are invested on both surfaces, by the membrane of the aqueous husiour. They are more or less thickly covered with pigment, which, by its varying color, imparts to the iris on its anterior surface its characteristic bue, and, by its darkness on the posterior surface, renders an otherwise semi-transparent surface perfectly opaque. The second component portion of the iris consists of a layer of c neentric muscular fibres; which fibres, in man and mammalia generally, are situated on the posterior surface of the pupil'ary portion of the iris but which, in birds, extend much nearer to the ciliary margin, and consequently on a much broader layer. In fishes and some reptiles they do not exist at all. The author then proceeds to inquire into the bearings which these conclusions may have on the physiology of the iris. He thinks that the phenomena of its motions can receive no satisfactory explanation on the hypothesis of contracti ity alone, or that of the

for dilating, the other for contracting the pupils. He is convinced that the contraction of the pupil is the effect of muscular action; but does not consider the knowledge we at present possess sufficient to enable us to determine the nature of the agent by which its dilatation is effected. He, however, throws it out as a conjecture, that this latter action may be the result of an unusual degree of vital contractibility residing either in the cellular tissues, or in the minute bloodvessels of the iris. It is from elasticity, he believes, that the iris derives its power of accommodation to changes of size, and its tendency to return to its natural state from extremes either of dilatation or of contraction; but beyond that, elasticity is not concerned in its movements.

West Minsten Hospit VI .- Operations and Clinique of Mr. White - Lithotrity-Trachestomy,-Saturday, March 4, 1843. - Mr. White introduced into the theatre the patient referred to in our last number in the clinical lecture of Mr. Guthrie, and in calling the attention of the pupils to the case, made some highly interesting and valuable practical observations on the subject of lithotrity. As the patient had alread y undergone one operation in presence of the pupils, Mr. White did not require to enter again into the history of the case. He referred, however, to the eurious fact which that previous operation disclosed, viz., of a pin which formed the nucleus of the stone, and which the pupils had seen extracted along with a great mass of the calculus at the former sitting. How the pin got into the bladder was a subject of varied conjecture, but nothing certain was known upon the matter. Since the last operation the patient has passed a large quantity of the debris of the stone. In passing some of the fragments a little pain was experienced, and one of the pieces actually stuck in the urethra, and was thrust back by his colleague, Mr. Guthrie, into the bladder. That fragment consequently was still in the bladder, and Mr. White had reason to believe that there were other pieces that required to be broken down and pulverised. The learned gentleman then proceeded to demonstrate and explain the steps of the operation. The position of the patient best adapted for the operation (the recumbent) was exhibited; the mode of injecting the bladder was also shown. In the bands of Mr. White the silver eatheter, through which the water is conveyed into the bladder, is converted into a sound, and by the ingenious application of a sounding board fixed to the end of the catheter like a handle, the contact of that instrument, with the smallest portion of the calculus is at once perceived. Having satisfied himself that fragments of stone existed in the bladder, Mr. White withdrew the sound, and easily and smoothly introduced the crusher. Mr. White carries the instrument into the lowest part of the bladder, then separates the blades of the instrument, and, by a slight vibratory motion, imparted to the instrument, the calculus is placed between its blades, and immediately seized. This part of the operation was effected with great facility, and several pieces, in succession, of the calculus, in a few seconds, were broken and crushed. A large portion of the pulverised stone was brought away between the blades and teeth of the crusher, and the remainder left to be evacuated with the turne. The operation of lithotrity is a glorious triumph of surgery, and demonstrates the railway speed at which surgical science is progressing. After the performance of the above operation. Mr. White visited his patients of the hospital, and among some interesting cases which he, in a few but pointed scatteness, explained to the students that thronged around him, he particularly directed their attention to a case of tracheotomy that had recently been performed. The case was one of no ordinary nature. The f-male was brought, a few days ago, into the hospital, labouring under chronic bronchitis, and placed under the care of Dr. Roe; yet, notwith-standing the indefatigable exertions of this eminent physician, the difficulty of breathing gradually inreased, probably from supervening ulceration of the glottis, till she appeared at the point of death. In this predicament Mr. White was sent for, and from the urgency of the symptoms, hesitated not for a moment the opening of the trachea. The operation was performed in the usual way, in the mesial line of and as soon as the trachea was opened the patient [awoke, as if by magic, into new life. The eye, the complexion, and expression of the face, were immediately improved. The breathing was now free, and a smile of gratitude seemed to lighten up the countenance of the patient. To keep the opening in the windpipe of the patient, a tube was introduced into the aperture, and through which the patient breathed, and apparently with perfect comfort. About twentyfour hours after the operation the difficulty of breathing began to return, and ultimately became so urgent that the house-surgeon, Mr. Brock, had no al, ternative but to remove the tube, or see the patient expire. Mr. White passed a warm encomium upon Mr. Brock for acting as he had done, and referred to cases that had been lust by neglecting to adopt this precaution. As soon as the tube, which had been partially closed with mucus, had been withdrawn, freedom of respiration returned, and the improvement has gradually advanced to the present state, when the patient now breathes through the natural passage, and is proceeding satisfactorily to perfect health.

THE ROYAL MEDICO-CHIRURGICAL SOCIETY -At a meeting held on the 28th ult., the President in the chair, the following papers were read :-On Fatty Degeneration of the Arteries, by GLO. GULLIVER, ESQ., F. R. S., (Communicated by Dr. Hodykin.) The author, remarking how vulgarly the epithets atheromatous, and similar oncs have been applied by pathological writers to direased arteries, and that the morbid deposit between the middle and inner coats, and in the substance of the former, has not, as far as he knows, yet been submitted to precise examination, gives the result of his own observations, from which it appears that the disease is really of a fatty nature. A microscopic examination of it brings into view a multitude of crystalline plates, fatty globules wth albuminous and earthy particles. Several specimens of the crystels were sent for examination to Dr. Davy, who ascertained that they are of cholesterine. The fatty matter is easily extracted by boiling alcohol, and the chrystals of cholesterine are seen to be deposited as the solution acts. The author has examined numerous specimens of the diseases, and never failed to observe these crystals and the fatty globules in the deposit, and also generally in the substance of the altered middle coat. The microscopical characters are given in the two figures. The accuracy of Dr. Davy's observations, (see his researches Phy. and Anat., v. 1, p. 372 and 436), as to the thioning &c. of the middle coat of the artery is confirmed by Mr. Gulliver. The importance of fatty degeneration of the coats of the arteries is insisted on, especially as to its general connexion with thickening and puckering of the inner membrane, with aneurism, with obstinction, occlusion, or ossification of the vessels, and with those ruptures of them which are frequently the cause of sudden death. In a note the author adds that fatty degenerations are more common and of more importance than has yet been supposed. He mentious obstruction by fatty particles of the seminal tubes; and notices fatty degeneration of the blood, lungs, &c. The disease be describes as being more remarkable in "brown consolidation" of the lungs than in red consolidation; and these two diseases are described as affording distinct morbid product.

A Normal and Abnormal Conscious State, alternating in the same individual :- by John Wilson. E.q., M.D., Physician to the Middlesex Hospital -This case occurred in a boy, aged 14, a patient in the Middlesex Hospital, who was said to have complained of head-ache for two or three days, but whose appearance was healthy. For three or four days his appetite was inordinate, seizing upon any articles of food he could meet with in the ward, though allowed full diet. When not eating or seeking for food he generally slept night and day. This abnormal state continued for three or four days when he recovered his natural state of sleep, appetite and consciousness. Then he had no recollection of what he had done, or of what had happened to him since his admission. He was shortly afterwards discharged, but was twice re-admitted, presenting each time, the same symptoms, viz, alpernations of consciousness and unconsciousness.

from this case; his object being to invite further examination for similar cases, and when that arives then will be the time for discussion.

Remarks on the Calculi in St. George's Hospital. - By Dr. Bence Jones-Communicated by Mr. C. Hawkins .- The number of specimens submuted to examination was 233. The author's object from the analysis of these Calculi, is to arrive at conclusions with regard to the comparative frequency of different states of the urioe in calculus complaints; and thus to obtain practical hints as to the efficacy of remedies intended to alter the secretion, or act upon the stone in the bladder. He presents several tables: and taking 450 states of the urine inferred from the composition of the calculi, finds that in 139 it was alkaline, and in 311 acid, to the test paper. Omitting from the latter list 59 specimens of the oxalite of lime, 252 cases of the uric acid diathesis remain: and in 117 of these no free acid was passed, from which the author con cludes that alkalies would have been of no benefit in them, so far as neutralizing acidity of the urine was concerned. Taking the cases in which the alkaline concretions prevailed, he infers, that in 52 the calculus might have been lessened by the injection of dilute acids, and in 12, the whole calculus might have been removeo; while is others to which he refers, disintegration might have been effected. He concludes by describing a calculus in the possession of Mr. Hawkins, the nucleus of which consists of cystine, and which, from the history appears to have been formed when the patient was 21 years

Case of Ulveration of the Internal Jugular I'cin, communicating with an abscess: by Mr. Bloram, Surgeon to Queen Adetaide's Lying-in-Hospital, and Lecturer on Midnifery, (Communicated by Samuel Lane, Esq.)-The patient, five years of age, after an attack of scarlet fever, had supportation of the glands of the neck of the right side, near the angle of the the jaw. Five days after, the abscess burst, blood of venous character was discharged from the opening at first in small quantity, and afterwards more composity. Graduated compresses were applied, but the Læ i orrhage could not be restrained, & the child died on the fifth day from the commencement of the bleeding. On dissection an ulceration of an oblong shape, about five lines in its long axis, was found in the inner side of the internal jugular vein, and opening immediately into the sac of the abscess. Extravasated blood was also observed beneath the integuments of the throat and forepart of the chest.

THE PHARMACEUTICAL SOCIETY, -At a meeting of the members of this society, on Wednesday evening last, the president addressing the meeting said, that this was the first meeting since the society had ob ained a charter of incorporation, by virtue of which it had become acknowledged by the law of the land, and thereby its political situation was materially altered. The preamble of the charter stated, that Her Majesty, with the consent of her advisers, had been induced to grant this boon, believing that the association would be the means of advancing the arts of Chemistry and Poarmacy: and of thus contributing to the welfare of the public interests. Now, whatever might have been the motives which had induced gentlemen to join this association, or might hereafter lead them to associate with it, this must be remembered-that they were pledged to do all in their power to elevate the profession to which they belonged, and to show themselves, in this way, deserving of the boon conferred upon them. He hoped it would not be thought by any of them, that, having arrived at this satisfactory point, their work was done. He for one did not think so, and he trusted that no man did; but, on the contrary, he felt called upon to employ every means in his power to carry out the great end the society had in view. He hoped that that object would be fully borne in mind; that it would not be considered, by the members of this society, sufficient to have three or four letters placed at the end of their names, unless they could do so with credit and honour to themselves. The meetings of this society would doubtless he the means of advancing the great object it had in view, No treatment was adopted. The author for the pre- and this ought to be a stimulus to a frequent and

sent reserves his opinion and the inference he draws | regular attendance at them. The council were most anxious, always, to cater for the enjoyment and improvement of the members, but they must look to the members themselves for an opportunity of so doing. He was very happy to say that competent judges had expressed themselves exceedingly pleased with the papers that had been read at the meetings of this acciety, from time to time. He hoped that the members of this society would always be disposed to speak and to act towards other corporate bodies with due deference and respect: but he would say this publicly, inasmuch as the government of this country, in their wisdom, had thought proper to recepnise this society as an integral part of the medical profession,-he expected-and he hoped it was no more than he had a right to expect—that other corporate bodiesmore especially the College of Physicians-would manifest the same disposition towards this society. This meeting would bear witness that he was a strong advocate for the strict observance of forms belonging to the authority of the land; but it was no more than right to expect that those forms would be of a scientific character and of practical utility; and whilst be and the members of this society would be quite willing and quite anxious to pay deference and respect to those who, by their education and station, were supposed to be best able to superintend such matters rather than matters of practical utility; in his humble opinion. practical matters were best left to the practical men, such as he hoped he should ever find the members of the Pnarmaceutical Society. Toe mere possession of a long purse and an university education, whatever influence it might formerly have possessed, he was happy to say, was not now sufficient to constitute real distinction or confer honour. Every Englishman-every British tradesman if he was a man of respectable character and devoted himself to the advancement of that occupation in which he was engaged, was entitled to be regarded as a British gentleman.

At this meeting three papers were read. The first was by Mr. Hooper, on "The Preparation of Exwas by Mr. Hooper, on the Treparation of Ex-tracts by Spontaneous Evaporation assisted by a Current of Dry Air." The second, "On Cettain Precautions Necessary in Using Chemical Tests," by Mr. Howard, of Stratford. And the third, "On the Preparation of the Syrup of Poppies by Cold Water." Mr. Hooper, in his paper on the preparation of extracts, observes that, according to the directions for making extracts in the London Pharmacopaia, the leaves of the fresh plauts are to be sprinkled with a little water, and boiling water is to be poured on the recent roots, which are to be macerated twenty-four hours; after which a decoction is to be made and evaporated at a boiling temperature. He doubts the expediency of this method for the following reasons:- First, by sprinkling water on the leaves the amount of fluid to be evaporated is increased, as the water, as well as the juice, must be got rid of by evaporation; secondly, the maceration accelerates acetous fermentation; and thirdly, the boiling temperature tends to destroy and impair the proximate principles of the plants. He has tried many arrange. ments and various temperatu es, and he is convinced, that by inspissating the expressed juice by a current of dry air, extracts may be produced of a more uniform character than arises in ordinary use, and that their quality is far superior. The dose is the same as that for the pharmacopæ al preparation. The process he en ploys he cooceives has these advantages-That it augments the current of air by which the evaporation is promoted; the moisture, as it escapes, is absorbed by sulphuric acid placed in trays alterrately with those containing the juice; and by more rately warming the current of air, and keeping the shelves of the appardtus in constant motion, the evaporation is further expedited. He describes the apparatus, which is a very ingenious contrivatee. We shall notice the other papers next week.

PUNISHED QUACKERY .- A lamentable instance of the effects of empiricism was disclosed yesterday. before the Tribuoal of Correctional Police. A man named Meulen, a native of Germany, and formerly a grocer's shopman, was tried for the illegal

practice of medicine. One of the victims, whom he | by the heat, is put into a covered crucible, carefully attended for a cold, and reduced by his medicines to a helpless and incurable state, appeared as a witness against the offender, who was found guilty and sentenced to a fine of 500 francs.

BRENTFORD MEDICAL ASSOCIATION -4 full attendance of the members of this association took place on Thursday, 2nd March, when a paper, read by Dr. Day, the president, on Fever, was the subject of an interesting discussion. We are told that this association promises to be highly beneficial to its members by encouraging the diffusion of medical information and the discussion of scientific tubjects.

PREPARATIONS OF IRON.

Experiments undertaken for the purpose of rendering more perfect the preparations of iron used in medicine, have led me to the discovery of several ferruginous products not yet studied, or but little known. I shall make known the more prominent properties of these products, so as to complete what I have already published on ferruginous compounds in general, and on the citrates of iron in particular.

SESQUICITRATE OF IRON. - The citrate of the sesqui-oxide of iron is obtained in transparent lamina,

of a beautiful garnet bue.

PROTOCITERATE OF IRON.—The citrate of the protoxide of iron is prepared by treating iron filings with citric acid previously dissolved in distilled water. This salt is white and pulverulent, and but slightly soluble. It is rapidly coloured by light, and by the action of moist air its composition is modified, the iron passing to a higher degree of oxidation. This citrate, like the other protosales of iron, has a strongly marked chalybeate taste.

CITEATE OF THE MAGNETIC OXIDE OF IRON .-Combined with the magnetic oxide of iron, citric acid furnishes an uncrystallizable salt, of a green colour, and susceptible of being formed into transparent laminæ. This salt is soluble and very active, but as its taste is decidedly chalybeate, it is on this account objectionable for internal use. It is remarkable, that its solution does not alter, but preserves its green colour, although exposed to the prolonged action of the atmospheric air.

CITEATI OF IRON AND QUINA .- The citrate of iron and quina is a new salt, which was required as a therapeutic agent. This medicine is formed by the combination of four parts of citrate of iron, with one part of citrate of quias. It is obtained in the form of transparent lamine, soluble, very bitter, and of a gainet line. This salt is hest adapted for administration in the form of pills, on account of its great bitterness .-

SYRUP OF TANNATE OF IRON.

	Take of					
	Simple syrup .				375	l'arts.
	Syrup of Vinegar				125	
	Citrate of magnetic	oxide	of	iron	10	1.4
	Extract of galls				4	.,
1	lin and from intra					

The iron in this preparation is in the state of the magnetic oxide united with an acid. It is soluble, tasteless, and susceptible of useful applications.-

PROCESS FOR THE PREPARATION OF ULTRAMARINE.

VAE OF			
I'me clay, powdered and sifted		100	parts
Gelatinous alumna, representing	o f		
the anhydrous	٠	7	- (1
Carbonate of soda, dried, 400 part	S 4		
or crystallized		1075	1.6
Flowers of sulphur		221	6.4
Sulphuret of arseoic		.)	**
The mixture of these substance	PS	inust be	made

with great care.

Into the carbanate of soda, liquified with its water of crystalization, throw the sulphuret of arsenic in powder, and when this latter substance is partly decomposed, add the gelatraized alumina (this alumina is obtained from the alum of commerce. precipitated by carbonate of soda-the precipitate collected on a filter, and washed once with river water). Afterwards add the clay and the flowers of sulphur previously mixed. This mixture, reduced rectangular four-sided prism, sometimes with a amelioration and well-being of our noble profession

heated, to drive off the remaining water, thea raised to a red heat. The fire should be so managed as to agglutinate, but not to melt the mass. After allowing it to cool, it must be again heated to drive off any remaining sulphur; it must then be broken and rubbed down with river-water. The powder held in suspension in the water is collected on a filter. When the mixture has been well made, the whole of the product may be used; but in case the combination has been imperfect, there will be found a number of colourless particles, or when the heat has been carried to complete fusion, there will be some fragments of a brown colour, especially when the crucible is of a had quality, and has been much acted upon. These results never occur when the operation is conducted with care. The filter should be allowed to drop without forther washing the powder, and the latter is then to be dried. product will be of a beautiful soft green colour, which afterwards becomes blue. - By M. J. De

MANUFACTURE OF THE OIL OF VITRIOL FROM IRON PYRITES .- The manufacture of Sulphuric Acid and Soda is carried on conjointly, in a factory at Belgium, in the follo ving manner:-The residue of the roasted pyrites are mixed with an excess of sea salt, baving previous v ascertained the contents of sulphate of iron contained therein. The mixture is then heated in an appropriate furnace, arranged so as to collect the muristic acid. The sulphate of soda formed is obtained by solution and crystallization; the peroxide of iron remaining is separated by elutriation into two parts: the most finely divided is dried and muxed with grease or palm oil, serving as a lubricator for machinery, for which it is admirably adapted; whilst the coarser porticos are made into balls, dried, and used as a mineral iron for the puddling furnace. In factories where soda is not made concurrently with sulphurie acid, in place of procuring the sulphate of iron from the roasted pyrites, it will be more advantageous to distil these residua; the sulphate of iron being first dried, so as to obtain the fuming sulphone acid of Nuthausen. as it is termed. It would be very easy to arrange the apparatus in such a manner that the sulphurous acid, arising from the decomposition of part of the sulphate of iron, should be conducted into leaden receivers or chambers. By such an arrangement, nothing would be lost, since the colcothar or perexide of iron remaining after the process Las been completed, is always available.

OXIDATION OF ALCOHOL BY CHROMIC ACIDS. --Chromic acid, as well as other substances, (for instance, spongy platina), converts alcohol into a liquid containing aldehyd, lampic acid, ethereons acid. If some dry chromic acid bethrown into ahsolute alcohol, it becomes suddenly red-hot, is re duced to protoxide; and, if the alcohol be only in very small quantity, it takes fire. Absolute alcohol, mixed with sulphuret of carbon, takes fire on the admission of the slightest trace of dry chromic acid; whilst sulphuret of carbon alone is scarcely affected by it. These experiments have been made with common chromic acd; that is to say, chromic acid contam nated with sulphuricacid. according to Tritsche's method.

HEMATOXYLIN .- Dr. Schunk has read to the British Association, a paper "on Hamatoxylin, the Colouring Principle of Ligwood," by Prof. O L. Erdmann, of Leipric. The Hæmatoxylin used by the author in his experiments, was prepired by the process of charcoal. In a state of purity, læ natexilin is not red; it is in itself no colonring matter, being acrely a substance expible of producing chouring matters in a manner simplar to tecanorio, orcem, or phloridzen. The colours which it produces are firmed by the simultaneous action of bases (particularly strong alkalies), and of the oxygen of the atmosphere. By the action of these it undergoes a process of cremicansis, which after forming colouring matters, ends in the production of a brown substance resembling mould: the colour of harnatexylin varies from a pale reddish yellow to a pile himey col ur. The crystals are transparent, possess a strong lustre, and may be obtained a few lines in length. Their form is a

pyraniidal summit. The taste of hæmatoxylin is similar to that of liquorice. With excess of ammonia, it forms what the author calls Hæmatein. annlogous to orecin, &c.

ETHER FROM ORGANIC ACIDS. -M. Gaultier de Claubray has succeeded in procuring Ether from O ganic Acids, by the use of beat: his process is to add alcohol, drop by drop, to the hot acids.

CONSTITUTION OF THE SULPHATES. -Mr. Graham, F.R.S., has communicated to the Chemical Society, certain experiments 'On the Constitution of the Sulphite as illustrated by late Thermometrical Researches," which he considers sufficient to demonstrate that no heat is evolved in the formation of double sulphates; and that their compounds are formed at once on mixing the solutions of their constituent salts, whether precipitation occurs or not. Sulphate of potash and water are, therefore, equivalent in the constitution of such salts, or equi-calorous, if a term may be coined to express

CHRYSTALLIZATION OF SALTS -M. Longchamps has published some experiments tending to show that all Saits expand in the act of Chrystall zation; and that the apparent contraction which often takes place arises from loss of best in the solution.

PURE BORACIC ACID. The usual method of preparing boracic acid consists in decomposing borax by means of sulphuric acid; but the boracic acid thus obtained is always contaminated with a cer tain quantity of the sulphuric acid used in its preparation. M. Wakenroder has pointed out a better method, as follows: dissolve forty parts of borax in one hundred parts of boiling water, and add twenty five parts of hydrochlarie acid to the solution while hot. Collect on a filter the horacic acid. which will crystallize on the cooling of the liquor, wash it a few times with cold water, allow it to drain, re-dissolve it in a little hot water, and crystallize it a second time. Wash the crystals with a little cold water and press them between folds ofiltering paper. The mother-water and the washf ings of the crysta's may be evaporated so as to afford a further quantity of the acid. This boracic acid, when dry, will still retain a trace of free hydrochloric acid, which may be driven off with a part of the water of crystallization by drying the acid at a temperature of about 234° Fah. After this operation the acid is pure.

OUR INTENTIONS.

This volume will be concluded with the second weekly number after this, when we shall commence giving a short course of lectures on Organic Chemistry, by one of the very first of British practical chemists. Dr. Marshall Hall's course on Diseases of the Neryour system, will be terminated in our next number. If this course offer much that is extraordinary in treatment, and little that the judicious medical man will adopt into practice without suspicious solicitude, it will at least have gratified the avid curiosity roused by bold claims to grand discoveries, claims alike supported and resisted with equal pertinacity, though not with equal temper or reason. The course by Serres, on Organogeny-the most novel and important published in any journal for a very long period-will be concluded in about five more numbers. We shall continue the course of lectures on the Practice of Physic, by Dr. C. J. B. Williams, F. R. S., till the whole series be given. They are specially reported for us by Mr. Gregory, the shorthand writer, and may be depended upon by the general practitioner as containing the experienced and well-reasoned lessons of one of the most practical, judicious, and deep-thinking physicians of the age. Our Pencillings of Emment Medical Men will be continued as usual; and our attention to the improvements every day being made in Pharmacy, Surgery, and Medicine, will certainly not be abated, by the triumphant success, every day augmenting. which has crowned our past labours in behalf of the

TO CORRESPONDENTS.

Our druggists' price list will appear next week, as well as the conclusion of our article on the Quack and Patent Medicines

and Patent Medicines.
Our Correspondents' indulgence is craved: they are unavoidably postponed till next week.

THE MEDICAL TIMES.

SATURDAY, MARCH 11, 1843.

 $^{\prime\prime}$ Invitus ea tanquam vulnera attingo, sed nisi taeta, tractatuque sanari non possunt. $^{\prime\prime}$.—Lavy .

WE have more than once recorded our opinion in emphatic condemnation of the timid and disingenuous policy publicly pursued by the ruling authorities of the Pharmaceutical Society. We complained—and with the force that truth gave us-that while the great bulk of the individual member's opinions were at onee so well known and decided, yet that no one could pronounce what were the principles of the Society itself; and expressed a suspicion that though external influence had forced the heads and members into conjunction, they had only mutually to explain themselves to be again thrown into a state of repulsion and separation. Starting on the well-understood - (for how say, avowed, where nothing is avowed but ambiguity?)starting, we say, on the well-understood principle of protecting druggists' interests, the chiefs have identified themselves with a knot of exclusive physicians, and have catered, and not vainly, for the support of some general practitioners. Now allowing much as we may -- and we have never serupled to allow much in the way of admirable intentions,-we cannot yet blind ourselves to the evident fact that a society so formed, and so acting, must either have no principles at all as a governing public body, or must with a tortuous and timid policy that can invoke no good man's praise, have completely compromised them. Such heterogenous materials, we have felt, could not have commingled without some loss of their originally distinguishing elements. loss has not been on the part of the foreign bodies introduced. It has been that of the Society which has not yet dared to make a plain profession of its faith, and which when once obliged to act, and so in some measure demonstrate its principles, (and it soon must act) will not, we consider, be able to advance one step without dissipating some pretty bubble of elate expectation, which, if it has not itself raised, it has at least allowed unchecked to be blown, and easting from it in its onward course, in rapid succession, the numerous supporters, whose connection has been all along maintained but by the feeble tie of a delusive hope.

We may not have been right in these opinions. Time, the great teacher in that case will convict us of error; but we have sincerely entertained them: and the recent concession of a charter to the Pharmaceutical Society, in no way influences us to change them. We have never doubted the probability of such an event, but what we have strongly doubted, and what we still

doubt is, the probability of that event giving a stability to the society it did not possess before, or giving to a body with the elements of disjunction and weakness essentially within it, the power and permanency of a true cohesion and unity.

A short description of the new charter, with a few words on the character of its provisions, as they have been made known to us from an authentic source, on which our readers may entirely rely, will serve to confirm the truth of our prognostications.

The charter in the first place leaves the Society a perfectly voluntary one. Any one may now, as before, vend or dispense medicines without the sanction of, or connection with, the chartered body. diploma cannot be made a sine qua non to chemists and druggists without an act of Parliament. The government is declared to be in the hands of the President, Vice President, Treasurer, and eighteen other membeas. The election is in the members, but they are restricted each year to re-elect one third of the passing year's council, and the Committee cleet the President, and Vice President, and Treasurer, from their own body. The quorum of the Council is to be seven, the meetings mouthly. They have the power, as they had before, of making bye-laws for their own members, and they may sue and be sued. In one word, the Society is just what and where it The Queen has done what we and the world had done long before, recognised the existence of such a body as the Pharmacentical Society. We have now what we had not before, her gracious sign manual for the fact that there is such an association!

The only use then of their diploma is its honour, as the only use of this Society to the great bulk of the members is its diploma.

We confess that with eyesight the most charitably microscopic, we cannot discover the honour of a diploma which is possessed by three or four thousand gentleme', merely because they have been found in practice, as chemists and druggists, in the year of grace 1842. Such a circumstance pre-supposes nothing of high character, morally, mentally, or scientifically, which can tend to give honour to the possessors of such a document. If it be no honour, where is its utility?--and where, consequently, the honour or utility of membership in the Society which gives it? We say this out of no enmity to the Pharmaceutical Association. As conducting a Medical Journal-still less, if possible, individually—we have no interest in the destruction of that body. If it would only boldly declare itself, the thing to be desiderated would be its flourishing existence. But, looking with the eye of attentive observers, we are bound to point out the course of coming events, as necessitated by the circumstances before us. We prophecy as we see, and if our prophecies are not the speakings of reason, they are eertainly not those of hope. If we are

One word on the possession of the diploma, as indicating the permanency of the Association. If two guineas, the price of one year's membership, shall purchase a diploma, why shall more years of membership be uselessly paid for? Does the Council think that it has such a property in the diploma, that it can recall it? If not, does it fancy that three or four thousand gentlemen will voluntarily pay six or eight thousand guineas, year after year, without any corresponding quid? We tell it, that after the diplomas are given, the members will secede, and we tell it further, that it will vainly apply to Chancery for injunctions against nonmembers using diplomas so acquired. The diplomas will evidence a fact—the fact of a prior membership; and if there be no humiliating contracts specially and formally entered into for their return (the notion is absurd), no court of law or equity would or could intervene. The diploma, at present, is the foundation of the Society. The Council cannot too soon look out for a

" Excisenan-one who filelies in the name of the las."

Johnson

The recent Excise prosecutions of chemists and druggists, for vending spirits, have caused a perfect consternation through the trade. No less than five hundred informations have been laid against as many druggists, and twenty-five have been amerced in fines of £50 each.

Now, there are two positions which may fairly be taken—one of which will not please the Excise gentry; and the other, probably, the higher-toned and more ardent sticklers for pharmaceutical privileges,—viz., first, that the druggists have been clearly in fault, when regard is paid to the state of the law; and, secondly, that the Commissioners have been still more in fault, when attention is paid to the state of practice.

Two things are necessary to sell any kind of spirits-a license, and a conspicuous public declaration of the fact of such vending. There is but one exception-the sale of spirits as a medicament. Alcohol, spirits of wine, are terms that are found in every Pharmacopæia, and if the pharmaceutist may not vend them for purely medical purposes he may forthwith shut up shop. So far, all parties are in perfect agreement. Nay, they agree further. If a druggist vend spirits of wine with the sincere notion that they are to be applied medicinally, and they are bought for another purpose-it is admitted that he is exempt from any penalty. His bona fides shall save him in the illegality.

But the usual, or at least a very frequent, purpose for which spirits of wine are sold, is for household purposes:—feeding lamps, scouring plate, making varnish. Now, there is no disguising the plain fact that, for all such purposes, the sale of spirits of wine, or of any "strong water," (as the Act calls it) by an unlicensed party,

is illegal—an illegality so decided, that, KITCHEN CHEMISTRY & MEDICINE. looked at purely in that light, no length of usage can countervail it. But shall it be said that no length of usage shall r.scue the well-meaning offender if not from the law's notice, at least from its punishment? Here was a usage of thirty years' standing. Spirits of Wine have been retailed by no regularly licensed cender: it was universally thought completely out of their province. The druggists have as constantly kent and sold it. Society, whenever the article was wanted, went to them as its natural distributors. The very Commissioners who now hear the informations, yielding naturally to the useful custom, have positively been in the habit of so providing themselves with spirits of wine. The creature of law-a legal institution-a governing body-the Apothecaries' Hall, constantly kept and constantly sold spirits of wine for domestic purposes, and for thirty years no regular druggist has been disturbed or molested for the sale of the liquid .- And shall this universal practice, harmless to morality, convenient to society, strengthened by years, corroborated by the authoritative examples of the men most respectable, both in the Excise and Pharmaceutical bodies-shall this usage, we ask, with a single whisper of notice or warning, be suddenly made the subject of violent by a kind of infusion, the aroma of the coffee, universal assault—me side of its abettors charged by a portion of the other, as little less than guilty of crime, and five hundred decoction. of them-most of them heads of familiessaddenly involved in all the dreadful anxieties atttendant upon what must have appeared to them a costly, if not ruinous, litigation?

To our minds the procedure of the Comneither prudent nor humane. If the law were worth enforcing they ought to have enforced it before. They should never have allowed the usage to have grown up, or grown up, they should have left it undisturbed. If. however, the first were a bad laxity, and they were determined thus late to change ting the digestive organs, and by retarding it, they should have given timely and emphatic notice. If that were neclected, they might have acted: the complaint would then have been not against the law, but it; administrators; if not neglected we should have been spared these harassing prosecutions, which are relaxed, its combination with opium is very the prosecutors as the prosecuted.

The whole subject is now before the Government, Sir James Graham has countermanded all further proceedings till further consideration be given; and we shall not be surprised to hear that none of the penalties are to be levied.

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or at the control of a but, by Dr. Devices,

COPPEE.

There are various methods of preparing a solution of coffee. Some anthors recommend an infusion, others a decoction, as the best; but almost all concur in recommending the following essential requisites; namely, that the coffee should be good, properly roasted, and finely ground. From the experiments of Mr. Donovan, it appears that water extracts, by infusion, the same quantity of matter from cuffee, in very fine powder, as by decoction. But as a fine state of powder is not to be expected in the ordinary management of culinary affairs, a decoction of coffee, ground in the u-ual way, will be stronger than an infusion; and more or less boiling is g nerally practised by economical housekeepers. Mr. Donovan recommends the following method as efficacious in preserving both the aroma and bitter quality of the coffee. The whole water to be used is to be divided into two parts. One part cold is to be poured upon the coffee, and merely brought to a boiling point, when the liquid, being allowed to settle a little, is to be poured off. The remaining half of the water, at a boiling temperature, is then to be poured upon the grounds, and kept boiling for about three minutes, and after a few moments' subsidence the clear part is to be poured off, and mixed with the former liquor. The object in this method is, first, to extract by bringing the liquid to the boiling point, and second, to extract the latter property by

ADULTERATIONS OF COFFEE.

Ground coffee is extensively adulterated with chicory, and more rarely with roasted corn. Chicory is detected by shaking the suspected? article with cold water, in a glass vessel; if the coffee be pure it will swim and give little or no colour to the liquid, but if chicory be missioners was very far from right. It was present it sinks to the bottom, and communicates a pretty deep red tint to the water Roasted corn may be detected by adding timeture of jodine to a cold decoction of the saspected coffee, which will produce a blue colour in the liquid.

CLOVES

Cloves are useful in dyspepsia by stimulafermentation in the contents of the stomach. nausea and v smitting, par lenlarly the essential oil. In ordinary cas s the oil may be exhibited alone, in the form of pill made with flour; but in obstinate cases of vomiting, when the box elsare as profitless to the law as to society, to efficacions, in the proportions of one drop of by other physicians. the oil to half a grain of opium every two or three hours. In the bowel complaints of children, accompanied with irritability of the tion of wood vinegar, and when the heat has stourch, it may often be advantageously combined with chalk mixture, landanum, sweet spirits of nitre, and a proper proportion of syrup to render it agreeable to the taste, oil of cloves is also well known as a palliative | of toothache, although it sometimes proves inefficacions.

CINNAMON.

Cinnamon is an excellent and agreeable condiment for promoting digestion, and is used very extensively in dietetical and confectionary preparation. When employed medicinally, it s considered tonic, slightly astringent, useful in dispelling flatulency and in checking retching or vomiting, and is often mixed with other to prevent their griping effects on the bowels. The oit is sometimes applied to a carious tooth to relieve a paroxysm of toothache.

MUSTARD.

Mustard causes no injury to the digestive organs when used moderately; but when there is any tenderness about the stomach, as is often indicated by a red tongue, it should be avoided Some authors recommend mustard for the table to be made with milk; but it is not well calculated for this purpose, as it becomes rancid in about two days. Water containing common salt in solution will give it the proper consistency, and at the same time ensure its preservation. Mustard is sometimes employed as an emetic, in cases of emergency, in the dose of a small table-spoonful mixed with eight or ten ounces of water. Externally, it is often used, in the form of poultice, to relieve spasms and local pains of various kinds, and if not deep-seated, is generally very efficacions. When long applied to a tender portion of the skin, it may cause blistering; but as the period is generally limited to half an hour, a deep red stain is only produced; which, however, often continues for a number of days.

ADPLITERATIONS OF MUSTARD.

The inferior varieties of mustard are often composed, almost entirely, of flour, turmeric, ginger, and cavenne pepper. Turmeric is detected by a solution of potash, soda, or ammonia, which strikes a deep brown colour when the mustard is diffused in water. Flour is discovered by iodine which when added to a decortion of mustard, gives it a deep blue colour, When the quantity of flour is large, it forms a tough, elastic mass or paste with water. Dr. Christison states, that mustard for exportation is also adulterated with gypsum.

PEPPER.

Pepper is an excellent stimulant for promoting the digestive process, and is so universally employed as to be nearly as indispensable as common salt. It is particularly useful when taken along with vegetables that are liable to produce flatulency; but ought to be employed sparingly by persons who have any tenderness in the region of the stomach. In flatulent chohe, pepper mixed with hot milk is a popular remedy, and is often serviceable. It forms a good external application in cases of local pains, and in spasms of the stomach and bow-The most convenient and efficacious method of employing pepper for this purpose, is to mix the powder with ardent spirits, dip linen or cotton cloths in the mixture, and ap-They also have a powerful effect in checking ply them to the parts affected; and they should be frequently renewed until relief is of tained. The crystilline body, piperine, has lately been recommended for the cure of ague; and some writers consider it superior to quinine, but the statement has not been confirmed

ADULTEBATIONS OF VINEGAR.

Sulphuric acid is employed in the re-distillabeen too great, a portion of it passes into the receiver. Vinegar may thus be unintentionally contaminated with sulphurie acid. If it be very minute, it cannot be injurious, and, I believe, is tolerated by the excise laws. When it exists to any extent in vinegar, a solution of nitrate of barytes throws down a copious white precipitate. It copper or lead be present, sulphuretted hydrogen throws down from it a black precipitate.

WINES.

Counterfeit wines are sometimes so skilfully made, that an experienced connoissenr is required to detect them. Red wines are often artificially coloured with brazil-wood, myrtlemedicines to cover their disagreeable taste, or | berries, elder berries, beet-root, and even it i

said with a solution of indigo. Mr. Accum of fermentation, &c., to a more general prinstates that spoiled cycler is employed in the ciple, is unsuccessful. The only instances he manufacture of artificial port wine; and beetroot, logwood, rhatany root and a portion of brandy are added to it. Sweet-briar, orrisroot, laurel-water and elder flowers are employed to form the aroma or bouquet of high flavoured wines. Weak wines often become acid, and to correct this state it was frequently the practice, at one period, to add litharge or an oxide of lead to them; but this plan is more rarely adopted at the present day. This addition communicates to the wine a sweetish taste, by the formation of acetate of lead, but renders it more or less poisonous. This sophistication may be detected, by adding to the wine a solution of hydro-sulphuret of potass, which produces a black precipitate if lead be present. Chalk or carbonate of lime is more frequently employed than lead, and is not injurious in small quantities.

ADULTERATIONS OF BREAD,

Potatoes are sometimes employed by bakers to mix with the flour, in order to increase their profit In such cases 14 pounds of potatoes to a sack, or 280 pounds of flour, are said to be the proportions employed. As potatoes contain much less nutriment than flour, in proportion to their weight, and as they are apt to disagree with persons of weak digestion, the practice ought to be considered in no other light than an imposition on the public. Alum is also frequently used for the adulteration of bread. The addition of alum to bread improves its appearance, rendering it white and firm, so that it is less apt to crumble when cut with a knife. The smallest quantity of alum that can be employed to produce this effect is from three to four ounces, to a sack of flour, weighing 280 pounds. This small quantity of alum in the bread cannot, to any material extent, be hurtful to the constitution, for a quartern loaf, weighing four pounds, will only contain about eighteen or twenty grains of this salt When, however, eight or ten times this quantity is employed, for the purpose of whitening bread made from damaged or inferior flour, it must prove very injurious, and increase the naturally astringent effects of loaf bread. The adultera-tion may be detected in the following way. Take two or three omces of the suspected bread, and rub it earefully in a mortar with six or eight ounces of cold distilled water, then filter through paper. Add to the resulting liquid a solution of muriate of barytes; if a copious precipitate ensue, which is insoluble in nitric acid, the presence of alum may be considered as nearly certain. But this may be further confirmed by adding to another portion of the liquid a solution of subcarbonate of potass, which throws down from alum a floculent precipitate.

PHYSIOLOGICAL CHEMISTRY.

(By Mr. PRATER, Lancet.)

ALTHOUGH Liebig has investigated the phenomena of fermentation and putrefaction after a most masterly manner, I think it may reasonably be affirmed that he has attempted to generalise too much on the subject; or, rather, that he has not succeeded in his admirable attempt. That fermentation is (as he says) produced by decomposing matter communicating the same sort of action (somewhat after the manner of contagion) to a solution of organic matter, otherwise not disposed to change, seems in his work pretty clearly established, and may be considered to be his own important discovery on the subject. But I propose in this essay to render it clear that his attempt to refer the peculiar action of decom-

seems to have given are the following, and these are rather to be looked upon as exceptions to the general law, that affinity in action cannot communicate such action to all substances that happen to be present. I say they should rather be considered as exceptions to the general law of inorganic matter, because they are so few, fewer even than Liebig supposed. The facts on which he founds his opinion are the following :-

1st. Metallic copper is not soluble in heated dilute sulphurie acid, while an alloy of copper,

zine, and nickel dissolve easily.

2nd. Platinum alone, even in minutest state of division, is not soluble in uitric acid, while an alloy of platinum and silver is so .— (Chimie Organ., p. 225, French translation.)

3rd. According to Khulman, no nitric acid is formed when spongy platinum is heated in a mixture of pure azote and oxygen, but only when heated in a mixture of evanogen and oxygen in excess, or (p. 270,) (a less satisfactory example) hydrogen and oxygen and

azote. -(Opus. cit , p. 282, 3.)

I have put these three so-called facts together although they are placed in different parts of Liebig's work, because they appear the only ones which can be referred to the same principle, and also to a principle, if established, which is similar to that causing fermentation and putrefaction. As to the decomposition of the chloride of azote, by touching it; also that of peroxide of hydrogen, by the contact of different substances; contact or agitation immediately causing crystalisation from a saturated saline solution, &c. &c.; all these phenomena seem to have little or no relation either to the three so-called facts above stated, or to the phenomena of fermentation or putrefaction; for Liebig himself distinctly says, it is not by the mere contact of the ferment that fermentation is produced, but in consequence of that ferment itself being in a state of active decomposition. Besides, If mere contact, or any kind of agitation (similar to that eausing crystalisation in a siturated saline solution,) were the cause of the spreading of fermentation, fermentation ought to be produced by such mechanical actions; but no doubt it is not. Ingenious, therefore, as is this attempt to generalize, it is pretty clear that the first three socalled facts, or the phenomena of fermentation or putrefaction, cannot be referred to the effect of mere agitation of particles, as in saturated saline solutions, &c. Let us, then, content ourselves with examining the three assertions in question, for if they are clearly made out, there will only be a shadow of reason to attribute fermentation to the same cause; and if they are unfounded, we must be content to consider fermentation, in the present state of our knowledge, as an ultimate fact, peculiar to organic matter, and in all probability peculiar to such matter in consequence, chiefly, of its facility of decomposition.

* Agaio, pp. 112-13, the volatilisation of a solution of boracic acid, or muriate of soda, at a very low temperature, while the two in substance are perfectly fixed, even at a full red heat, is grouped by Liebig among the same phenomena, the solids continuing the action which the water begins. But this is a case of evaporation, instead of solution or oxidation, and has little or no analogy to an action continuing through the same fluid. The salts are probably rather drawn up or forced up, by the ascending current, as it were, than actually of themselves continuing the action. This consideration seems sufficient to put them into a distinct class; but we must not forget that Mr. Faraday says such evaporation is confined

On subjecting brass wire to the action of boiling dilute sulphuric acid, in order to see if the zine would communicate its solubility to the copper (according to Liebig's theory,) I found sufficient copper was dissolved to be turned blue by ammonia. As I thought it probable that copper filings (in a fine state of division) were really soluble in heated dilute sulphurie acid,* I subjected them to such experiment, and found them to dissolve in sufficient quantity to colour the solution, and to be rendered blue by ammonia; the part undissolved was, in a great measure, converted to the black oxide.

The experiments just related were made in reference to Liebig's assertion (1,) in regard to an alloy of copper, zinc, and nickel. But as we see that copper, in a fine state of division, is soluble in dilute sulphuric acid, of course solubility is not communicated to it by the zine; indeed, the brass wire, though very fine, seemed only to a slight degree so'mble in dilute sulplurie acid, and not so soluble as the copper

In relation to experiment (2,) the finest platinum filings were put in nitric acid, in order to see if platinum itself was not, in some degree, soluble: but there was neither when the filings were boiled by themselves in nitric acid, nor in contact with silver filings, any appearance of solution, though these latter dissolved, of course, rapidly; nor when a platinum wire, of the 1-500th of on inch in thickness only, was put in the acid in contact with silver, was it in the slightest degree dissolved or even discoloured. But the reader, by referring to the note on fusion, at the end of this essay, will observe, that admitting the fact of the solubility of the platinum in nitric acid, when fused with silver (for Berzelius says the same,) I think such fact explicable on other views than those adopted by Liebig.

I have not repeated (3) Kuhlman's experiment in reference to the formation of nitric acid. But, granting the truth of his assertion. I do not think that this sole example is sufficient for Licbig's purpose, because the gases here made use of are those of which organic matter (animal) is in great part composed. We should hence expect some Jegree of such property in eyanogen, which seems to be considered a radical of animal matter, and at the same time contains combustible matter.

Cyanogen (like carbonic oxide) is inflammable; the carbon in the one case communicating its combustible property to the azote, and in the other to the oxygen; that is to say, when the oxygen is in small quantity: for when it exists to the same amount as in carbonic acid, we find the combustible quality destroyed. Now, on our views of this subject, combustible and organic matters should possess this property of communicating action.

We say combustible and organic matters, because a though organic matters are, for the most part, combustible in the dead (and dry) state, they are not so in the living; and beeause sulphur, phosphorus, and some other

* Most chemical authors seem to admit this; but if the alloy of copper, zmc, and nickel is soluble in weaker dilute sulphuric acid than copper is, Liebig had grounds for adducing this as an example of his theory: but that the theory altogether is erroneous, is shown, I think, in the note on fusion at the end of this essay.

† However, I do not know whether even these

cases of communicated action are not better referred to the principle of compound matter, being, as it were, a new substance with new properties, as the reader will see more fully developed under the note "on fusion;" the ideas contained in which are the result of further reflection on this subject

matters (as the metals,) are combustible, and Liebig has, consequently, established his without, as far as we can judge, being susceptible of vitalisation (if we may so speak) being, as we may conceive, too combustable for supporting the vital processes, these requiring only the "slow combustion," as Liebig calls it; at the same time, even animal combinations are, perhaps, necessarily of combu-tible elements.

In the foregoing remaks I have not alluded to the fact that hydrogen may be substituted for the earbon, because it is obvious that hydrogen is a substance of combustible nature and an organic element, and hence, of course, should, according to our views, be a fit substitute. But in this case there is also another reason, and one which makes this example not at all to Liabig's purpose, viz., that water is indispensable to the formation of nitrie acid; and water is formed when ammonia, or hydrogen and nitrogen, are burnt in contact with a sufficient quantity of oxygen.—(Liebig, p. 284.) Liebig, in this part of his work, then accounts for the formation of nitrie acid on other grounds, and is somewhat inconsistent with his statement at p. 270. Nevertheless, as he seems in some degree aware he could not properly bring this example under the same head as evanogen and oxygen, we see how few solid examples he has been able to urge in favour of his theory; yet, if a general principle, he ought surely to have found numerous other examples.

But to return to our point. One thing is certain, that even if Liebig em bring forward one instance in favour of the property in question extending to matter that is not combustible, yet there seem to be a hundred examples where the precisely opposite case obtains, as in all the electro-chemical combinations. In all those cases the most oxidable metal has its affinity for oxygen increased, to the exclusion of the less oxidable one. In the well-known case of copper, zinc, and sea-water, the copper, which would otherwise have been oxidated, is prevented from oxidation by the contact of the zinc; that being, at the same time, oxidated more rapidly, the copper transferring (as it were) its property of oxidation to the zine. And here we may observe, that all these electro-chemical combinations show that con tact has often a wonderful action in modifying or altering affinity, acting in many cases, doubtless, and perhaps in all, by disturbing electrical relations. But however to be explained, the fact is obvious; and Berzelius, in pointing it out, and extending it to some other cases, such as the effect of dilute sulphuric acid on a solution of starch at a certain temperature, chlorid azote (mechanical contact,) &c. &c., seems to have rendered a service to science; not that I would assert that he has grouped only cases under this head that properly belong to it; on the contrary, I think Liebig's observations necessarily oblige us to refer some of these cases to another and a different principle, viz., that a body undergoing decomposition tends to communicate the same property to the matter in contact with it, if, we may add, that matter be organie. Thus, to this latter principle should be attributed the acts of fermentation, Lichig having clearly shown that in this case the mere contact of the ferment is not sufficient, unless that ferment be in a state of decomposition. Thus the ferment, being heated at a low heat in a close vessel, ceases to disengage gas, and, at the same time, to excite fermentation; but on being left in contact with the air some hours, it acquires the property anew, and, at the same time, disengages from its own mass carbonic acid. - (Op. cit., p. 957.)

This experiment clearly shows that contact

principle as regards the important action of fermentation. But here I conceive we may fairly stop, and say that all his attempts to include other phenomena, excepting contagion, and putrefaction, and combustion, under the same head, entirely fail.

ETHNOLOGICAL SOCIETY, Fen. 28.

The Secretary reported that, since the last meeting, there had been an accession to the list of members of 22, which included, among other distinguished persons, Dr. Knox, of Edinburgh, and Professor Clarke, of Cambridge. He then read part the first of a paper from his own pen, entitled, "Contributions towards a History of the Esquimanx," appears this arctic race is spread over the whole of the northern coast, and of North America, down to Prince Williams' Sound. On the Pacific, including the Island of St. Lawrence; and to the coast of Labrader on the Atlantic, as well as along the opposite coast of Greenland, a computed distance of 5,400 miles, exclusive of the various indentations of the land. Throughout this vast country the same physical characters, language, and dress, is found, Dr. Prichard, in his "History of Man," has fallen into grievous error regarding this nation of fishermen, by trusting to compilations, instead of consulting the original authorities. By this means, he has figured a skull as typical of the race, which is fulsified by the collections of Esquimaux crania existing in this country, to the number of fourteen. He has mistaken the summer for the winter dress, and placed the stature of the nation too low by upwards of six inches-no trifling error in their physical history. Even the little, therefore, that has been done in this infant, but, particularly to medical men, most interesting science, is in a very erude state.

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Battley, Esq. TESTIMONIALS.

From the "Medico Churrereal Review" for January, edited by Dr. James Johnson, M. D., Physician Extraordinary to his late Majesty King William the Foundth —
Crylon Moss,—Mr. Previte has contrived to convert this mutuitions substance into a veral actreable forms, to said the lastes and appetites of invalids. We have been twing and preserving the gellect falce, and can speak strongly in their favour. This will prove a valuable dietetic article in the sick-room.

Valuable dietette article in the sick-room.

Sir — I can base no hesitation in speaking in the most satisfactory manner of the jelly propared Irom your Ceylon Moss, for I have been in the continual liabit of pre-cribing it as a diet for convolescents ever since I first heard of a, and I can with truth say that I know no hetter food in such cases.—Sir, your obedient servant, (Sirood) J. R. MARTIS, Presidency Surgeon, Calcutta, December 8, 1836.

Sir-In reply to your note, I beg leave to state that I have for many years past been in the habt of recommending the Ceylon M iss, as prepared by you, to all my convolusion pricents; and a great nonprity of them have preferred it to any other, either vegetable or animal

(Signed) S. Nicholson, Surgeon, General Hospital. To Mr. Previte.

To Mr. Previte.

I have used the Ceylon Moss frequently as an article of nourishment for invalids and children, and find it answer every purpose of arrew-root or sage), and in most cases to be much more arrecable to the habits of a sick person than the other describidous of Lainarcenis food generally in use.

(Signed) A. R. Jackson, M.D. (Signed) A. R. Jackson, M.D. (Breen) Officiating Apothecary, H.C.S. Large much pleasary, Dec. 13, 1836.

H. C. Dispensary, Dec. 13, 1836.

I have much pleasure in givine testimony in behalf of Mr. Pievile's Ceylon Muss. It Is an admirable article of food, peculiarly vell adapted to the delicate stomach of an invalid. Eith and casy of discretion, it is at the same time very nutritii one, far superior indeed to anything of the kind I ever met with. I have employed it extensively, and can recommend it with confidence.

[Signed] W. H. Godden, M. D. College, Calcutta, December 15, 1836.

Fort William, December 13, 1836 Port Sir—I have examined and tried the Ceylon Moss, and am of opinion that it be a valuable article of sick diet; the more so in cases where artinal selly cannot be obtained without delay, and when it is not so fitting for a weak state of the stomach as that of the Ceylon Moss,—Very truly yours,

[Signel] FREDERICK CORBYN, GAITISON SATZCON.

TO Mr. Previce.

Sir—In reply to your note, in which you request my opinion upon recylon Moss. I can merely repeat what I said in my capacity as editor of the "Indian Journal of Medical Science," viz.—th I I have tried it myself, and found it unequalted as a light and nourishing food for the sick. I beg to apolorise for not having set this reply earlier.—I remain, Sir, yours obedleadly, (Sizaed)

To Mr. Previte.

Linguist a staff.

To Mr. Previe.

I hereby certify that I have made extensive trials of the Ceylon Moss, introduced into notice by Mr. Previte, and I have also subjected it to chemical analysis. Per details as to its rheart of proper ites, I may refer to my paper on the subject in the "Unit Journal of Medical Science." I need only repeat here that I consider it an excellent artiple of diet for invalids. It is very nutritive, easy of digestion, and free from any disagreeable or prejudicial qualities.

(Signed) W. B. O'STATGRINESSY, Professor of Chemistry, December 10, 1830.

I have had many opportunities of recommending the Ceylon Moss, as prepared by Mr. Previte, in cases of extrem dehifity, and in early contralescence after fever, dyscutry, and other comprimits, where none other than the most delicar nourisiment could be administered, and I can confidently bear testimony to its value as a light and grateful article of food under such circumstances.

(Signed) Walfer Rallerid, Surgeon.

(Signed) WILER RILLIGH, Surgeon.
Calentia, General Hospital, December 8, 1836.

(Signed) WILER RAELIGH, Surgeon.

Calcutta, General Hospital. December 8, 1836.

(These certificates are taken from a paper furnished by me in 1837, and published in the "Transactions of the Royal Medico-Botanical Society." Vol. 1., Parl 4, p. 181.)

FROM THEINDIA JOTRICH OF MEDICAL & PRINSICAL SCIENCE "We have seen a letter from an invalid whom we sent home in March last, when he had been so reduced by heptatic and dysenteric affections as to require creat caution in his diet, stating that he found in Ceylon Moss, prepared by Mr. Previte, of essential service not only as a brury, but as a means of rest drug his debilitated constitution to health. To ronceal such intelligence as this would, we conceive, he to nectect the duly we owe to the public. We should her mention that the public are indebted to Mr. Previte for bringing the value of Ceylon Moss to notic."

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Clinical Lecture, delivered by Mr. GUTHRIE, on Saturde, March 11th, at the Westmurster Hospital

Summary.—The law of insanity—M'Naughten—the opinions of mad doctors not to be relied on-feigned diseases -- penetrating wounds of the chest -- advice to duellists -case of Sir Charles Bampfyld: of Mr. Richardson-of Lord Beaumont-of Licut. Forbes-treatment of an incised wound, penetrating the chest or abdomen-case of Mrs. Magnus-a) Mr. Drammond.

I HAVE written four books recording the practice of the surgeons of the British army during the war in Spain, Portngal, France, and the Netherlands, from the first battle of Roliga, to the last decisive conflict at Waterloo. The fifth book will complete the subject, and contain such observations as I have to make on injuries of the chest and abdomen. It is not, however, yet written. I have little time to spare that I cannot dispose of in a more profitable manner as regards myself, and there has been until now, no encouragement to print or publish, as far as respects the public.

Mr. Churchill offers to publish the book, and to expend as much upon advertisements as I shall pay for printing, &c.; this, he says, will repay me well, inasmuch as many of the reading public frequent the advertizing gentlemen. There, is, however, some danger in doing this, for the Council of the Royal College of Surgeons will visit with their high displeasure those of their body who appear most prominently in the columns of advertisements. and if an ordinary member may not appear every day, or every two days, an ex-president could not be seen, with any propriety, above once a-week; and I do not think the plan in this case would succeed. Gentlemen, when they decide upon shooting themselves, generally try the thickness of their heads, and when they think their honor has been offended, and that they ought to make a demonstration of intending to shoot somebody else, submit themselves in a very sensible manner to the guidance of a friend, who in general very wisely thinks that killing a man does not at all prove he was in the wrong, and that the retracting an error ought in most instances to be a sufficient satisfaction to the party aggrieved. Fortunately for practitioners in surgery, there are some foolish fellows left, who think it right to fight first, and apologize afterwards; but they are becoming scarcer and scarcer every day, and the only hope on which we can repose with any confidence, is derived from the accidental support of the lawyers and the mad doctors, who have not only as-certained that a man must be mad when he shoots himself, in which opinion 1 cordially concur, but have also discovered that when he shoots his neighbour he must be equally mad, in which I 'o not concur, but from which I do not dissent on of the opportunities, which the dissemit , on of such opinions will doubtless occasion, of improving your knowledge of wounds of this nature; and as the punishment for the crime of murder is now reduced to a moderately long transportation, or a comfortable confinement, with every reasonable accommodation for life, provided the culprit can shew that he ever laboured under a delusion, why

should any revengeful or misguided man leave his passions ungratified, or refrain from becoming a martyr for what he may suppose to be for the good of his country? The members of the medical profession are, apparently, according to the present state or practice of the law, the arbiters of life and death in such cases, without positively knowing on what principle they arbitrate. listened attentively the other day, at the trial of M'Naughten, and heard the Solicitor-General state at length the dicta of Lord Hale, Lord Erskine, and others, each authority laying down the law somewhat differently; but 1 did not understand him to point out decidedly the precise law under which the prisoner was to be tried and convicted. He seemed to me to intimate that the jury ought to be guided by the authority of Lord Hale, whilst the counsel for the prisoner intimated as strongly, I thought, that they ought to confide in that of Lord Erskine. This state of indecision is exceedingly distressing to medical witnesses, and cannot be satisfactory to a jury: whereas, if the law had been rather more clear, and had declared that a prisoner on trial was to be found guilty according to the facts, and that the extenuating circumstance of his having been occasionally insane, was allowed to be urged in his defence, as entitling him to a recommendation for mercy, which the judges might grant or not, as they thought right, and in such manner as they thought fit, or might be afterwards determined upon with reference to the proofs given of insanity, previously to the committal of the murder, the absurdity of finding such a prisoner as M'Naughten "not guilty" of murder or homicide, would rarely or never take place. If I had been a medical witness on the point of insanity, I should have, in all probability, coincided with the other medical gentlemen; but if I had been one of the jury I should have found him guilty, recommending him, however, for such a degree of mercy as would be short of lianging. I should have done this on evidence, or considerations of a professional nature, foreign to the trial, or what was addneed in court, and which inclines me to the opinion that our forefathers acted wisely in excluding medical men from juries, not because by their profession they are inneed to human suffering, and might be careless of preserving life, but because they might possibly be influenced, in a similar manner, by knowing too much or too little. In my own case, I am willing to admit that it would have been the last.

Looking at the prisoner from the side of the jury-box, I was struck by the peculiar manner in which he carried his head, which was so far backwards, both while standing and sitting down, that his chin would have pointed to the cornice of any moderately high room. This is a strange, constrained position, giving a singular expression to the countenance, and is not in any way natural, but under the controll of the will, for many muscles must be kept in constant action to maintain it.

The head is only usually thus thrown back when in the erect position, for the purpose of looking at something, when the eyes are kept open in the ordinary course of things, and the upper eyelid seldom moves. The muscle which turns the eye upwards, the rectus superior, and the levator palpebræ superioris, are supplied with nervous influence by the same branch of the third pair of nerves, in order that they may always act in concert, and, during this proceeding, the involuntary motion of winking is in a great measure suspended. I observed that M Naughten's upper eyelid did not wink in the proportion of one to three, when I compared its motions with those of the cyclids of the persons sitting near him. Its motion then was merely the involuntary action by which the eye is cleaned. I have heard, since the trial, that he usually earried his head in the same manner when under observation; and if he should continue to do so for the future, it will be a very inconvenient position involving no light degree of punishment in itself, and will prove that he is not mad upon one, but upon two points. I mention it in order that you may draw the attention of the young ladies, your friends, to this physiological fact when they go lionizing to Bethlehem. They may also observe how intellectual the eye appears when the head is brought forward, as in answering a question, and they will then come to the conclusion that he is rather a sensible, good-looking person, in spite of his double insanity.

I have no reliance whatever on the opinions of mad doctors, lowever eminent they may be, as to the sanity or insanity of any person, when those opinions are formed only from what they may have observed after the committal of a great crime. A man must be very ignorant and a very bad actor, who cannot deceive any number of doctors, who are sent to look at, or converse with him for an hour, from time to time, all of them being naturally anxious (from the kindness and humanity which pervade the profession at large) to find that he is insane, rather than otherwise. An utterly ignorant fellow may perhaps so grossly exaggerate the part he is desirons of playing, as to deceive no one; but this will rarely happen if the crime has been really premeditated, and due preparations have been previously made to obviate the ordinary consequences. It is not only against the feelings of a medical man, but it would be greatly against his pecuniary interests, particularly if he should be what is called a mad doctor, for there are a great many wayward philanthropic old ladies and gentlemen who would never cease abusing him if he were to dectare a person sane when such a declaration would hang bun, and I suspect very few will be found who would come to this decision when they can find even a shadow of doubt upon the subject.

Feigned diseases were in former days very common in the army, when its numbers were great, and the service more disagreeable than at present, and among these simulated maladies, the various kinds of insanity and of contractions, were not the least difficult of discrimination. I have seen more than one man recover his intellects in a wonderfully short space of time, after he had been discharged on the certificate of the doctors that he was ineurably insane. I remember one clever fellow, who had erawled about in various places for nearly two years, with his body bent at a right angle with his legs, on whom the doctors had tried all sorts of experiments to straighten him, by stretching him up against a wall with pulleys, &c., he roaring all the while, and the perspiration pouring down his face. He danced a hornpipe at the hospital door with considerable grace and agility five minutes after his discharge had been safely deposited in his pocket, to the great mortification of the surgeons, who had certified to the incurable rigidity of the muscles of his abdomen.

I do not know whether any of you go to the French plays; if you do you will have seen Mad. Albert acting in the mad scene in "La Perle de Savoie" remarkably well, and it she were to commit a murder from motives of revenge, I strongly suspect she would beat all the doctors sent to see her, provided only that she would sometimes act below her part, and remember that monomaniaes are not insane, even on one point, every day in the week. I am aware that many persons may have had particular means of acquiring information on the subject, but this makes it the more necessary that the conviction of a murderer should in no way depend on his or her being a good or bad actor. Kindness will do much towards the cure of many who are afflicted with insanity, but it is equally well known to those who have the care of mad people, that they are frequently deterred from committing canes through the fear of punishment, which they believe will certainly follow

I will not take up your time any loager with a subject which you will say searcely constitutes s to follow, a clinical lecture, although what perhaps, can hardly be deemed such, at least, within the walls of this hospital. Penetrating wounds of the chest are of two kinds; one from knives, swords, spears, or sharp-cutting instruments; the other from musket or pistol balls, or other foreign bodies, which bruise or tear. The treatment of a wound made by a knife or sword, is diametrically opposite to that made by a musket ball, and the treatment of a wound made by a musket ball is usually much more simple, and requires much lesss aid from scientific surgery than that made by the smaller ball of a pocket or duelling pistol. A few years back I was laughed at in the newspapers, and declared to have outdone Sir Lucius O'Trigger, because I recommended that, when gentlemen were about to fight a duel, they should present a bold front, and not stand sideways, for, if in that case they were wounded in the chest, one lung only would be shot through instead of both, thus giving them a greater chance of recovery; and I further advised that the pistols should be made larger in the bore, and that more powder should be put into them, so that the ball should be sent clean through a gentl-man, and not stop half way-advice, I can assure you, of the soundest nature. I do not, however, positively insist upon the ball being larger, inasmuch as the surgeon can always, and must, in most instances, enlarge the hole, and remedy the evil occasioned by a small opening; there is little hunamity in not having powder enough in the pistol to send the ball quite through the person fixed at provided it hits him; on the the contrary, I should deem myself guilty of murder, as much as the man who actually fired the pistol, if, knowing that thirty grains of powder would, at twelve paces, send a ball through a man, I were only to put in twenty, and let it be driven half way. speak surgically and humanely, and always with the view of saving fife.

The late Sir Charles Bamplylde, who was shot in the back about twenty years ago, by one of his servants, was an instance of the mischief following the pistol not being loaded with sufficient powder: the ball lodged inside the ribs, in front. a tough old gentleman, and, if the ball had gone through him, might have escaped, provided it had been bigger, or either of the holes it had made had been larger. He survived about eight or ten days, dying eventually from the oppression caused by a large quantity of fluid which had filled the right side of the chest, and had encroached by its pressure on the left. If the hole made by the bullet had been bigger, or I had enlarged the wound, this fluid would have escaped, he would have lived a day or two longer, and have then died from a different cause; but this my older colleagues would not let me do, and I did not dare to do it in those days without their consent. There is always a difficulty in carrying out a practice which has not received the stamp of antiquity or universal custom. People of condition, in this country, will discuss every branch of physic and surgery as readily and as stiffly as if they really knew someabout the matter, and to their own great disadvantage; inasmuch as their medical attendants are often prevented from saying and doing what would be both proper and right to say and do; for if unsuccessful in what they did, they would run the risk of being ruined in reputation by the absurd and exaggerated stories which are told in every direction, just as the individual who tells them happens to fancy the practice to be right or wrong, and often without even knowing any one of the facts of the case. If I had thought I could have saved him by enlarging the opening. I would have done it, fight for it, but not knowing where the ball was lodged in the chest, and never having seen one spit up, although I have seen a piece of rib coughed up, and have known a man go all the way from Waterloo to Paris with part of his breeches in his belly, the operation was not done. My excellent friend and colleague, Mr. White, some years back had a very instructive ease, in the person of Mr. Richardson, who was

shot on Blackheath. The wound speedily healed, but the patient became worse and worse, with exceeding difficulty of breathing; until, in a violent fit of coughing, the wound re-opened and discharged two or three pints of fluid, after which, Mr. Richardson did well.

We had in this hospital in September 1840, a lad of 18, who had shot himself for love with a pistol on the left side of the chest. The little ball went in just over the eighth rib, and lodged in the lung, the pisted not containing sufficient powder to send it through. He dragged on a painful existence until the 5th of December, when he died, His life was prolonged for a short time by emptying the chest of its fluid, but the ball was loose and rolled about on the diaphragm. If it had gone

through, he might have lived.

The ball, in the case of Lord Beaumont, did not go through, and is still lodged: it did not, in the first instance, open the cavity of the chest on the left side, but it ultimately did so, and he was near dying, not from fluid, but from air which escaped from a small hole in his lung, and caused as much oppression and obstruction as if it had been fluid. You will find the particulars of this case stated in a clinical lecture, which was delivered in this hospital ten years ago, and which is reported in the second volume of the London Medical and Surgical Journal. The first inflammatory symptoms were subdued by the loss of more than 100 onnees of blood from the arm, and not less than 150 from the application of more than 400 leeches at different times to the chest. The symptoms having very much diminished in severity, he was removed from Long's Hotel to private apartments, when he caught cold, which brought on a fresh attack of inflammation with cough and spitting of matter, and he would have died from the quantity of air which had been pumped by his respiratory organs into the eavity of the chest, and through the lung which had ulcerated, if I had not enlarged the opening made by the pistol ball, until the instrument I used, a piece of hard sponge tent, had entered the chest, and allowed the compressed air to escape on its withdrawal. The wound in the lung healed, and his lordship is now as sound in health as any man in England. He owes his life to the right application of the principles of physic and surgery and nothing else, and I will venture to say there is no other ease like this in Europe; he is a man, as I have often told him, per sc. Dr.Roe has told me of a ease of pneumo-thorax, where the wrong side of the chest was opened, and air admitted, the man dying directly from the consequent compression of both lungs, so that in performing an operation of such a nature, it is requisite to ascertain first which side of the chest is full of air.

Lieutenant Forbes, of the Royal Navy, desired me, within these few days, to examine a wound he had received in the right side of his chest, on board the Africaine, in 1810, at the Mauritius. ket-ball entered the right side in front, diagonally upwards and outwards, about two inches from the nipple of the breast. The ball did not pass out, but, luckily for him, it went through the wall of the chest behind, and lodged in the ionseles of the back, and soon ceased to be a source of irritation; it may now be felt and seen under the skin, and he said I might take it out if I liked, but as it was quite harmless and I recollected there was such a thing as raising the devil without being able to lay him again easily, I advised him to keen it. The ball made a large hole, and passed through the outer part of the lung. When a ball passes through the middle, or nearer the root of the lung, where the vessels are larger, the sufferer usually bleeds to death. This gentleman says he lost a large quantity of blood by the wound, was bled afterwards to a great extent by the doctors, and was nearly in a state of insensibility for six weeks, during which period large quantities of blood, air, and matter were constantly pumping out at the wound, which was large enough to admit of their all passing through. The thought this was very old and very wrong, but it was the only thing that aved his life. The great and important distinction between a wound from a musket-ball and a pi tol-ball is, that in the farmer case the wound is a large one, in the latter a small one; which is a areat misfortune, for nothing can be done with it the safety of your patient is ensured. He is a

inless it be cularged. When a patient is in the state described, the whole cavity of the chest passes into a state of suppuration, and if he is to recover, the wall thickens inside, the lung becomes more or less impervious, and adheres to it; the size of the chest diminishes, the ribs fall in to a certain extent, and the breathing becomes very imperfect. Mr. Forbes is in this state, and I have certified to the Lords of the Admiralty, not only that he is descrying of reward from them for his sufferings, but on account of his case being one of the best examples of good surgery that I am acquainted with, and well deserving of being known.

When a sword or a knife penetrates the wall of the chest, the cut should be closed as soon as possible; it should be regularly sewn up. When I used to lecture on surgery, and came to the subject of amputation, I advised you all to get broomsticks, and saw them up by inches, in order that you might acquire the necessary facility in doing it, for I am inclined to believe none of you are sawyers by intuition. In like manner, 1 judge you are not able to sew. It has been said, that a surgeon should have an eagle eye, a lion heart, a lady's hand. As to the eagle eye, and the lion heart, I make no doubt you have all got them, but I doubt the lady's hand. I have often thought my hand as light as that of any other man engaged in the practice of surgery, nevertheless, I never could stitch up a hole in my glove, nor in anything else, to my satisfaction. I would recommend you, then, to practice the art of mending gloves, until you can do it neatly: if you cannot arrive at this, you must in the event of an accident occurring, avail your-self of the assistance of some good old lady, who is past the time of fainting and hysterics: if she will only sew up the wound with as much care and neatness as she would a hole in her best cambric pocket-handkerchief, taking in with her stitch nothing but the edge of the cut skin, she will have done your patient an essential service. The skin is then to be wetted, and a piece of dry gold-beater's skin laid on it, then a larger piece, and next some lint: the whole to be retained by plaster, but no bandage is to be applied. The patient is then to be laid on the wounded side, and is not to be moved on any account whatever.

The older surgeons thought it right to begin to bleed, to purge, and to glyster forthwith-but I never could see the advantage of bleeding a man beeause he had the misfortune to be stabbed, and was half-dead already with fright: nor could I see how anything was to be gained by purging a man all day and night, whose great object was to lie as quiet as possible; and when I used to hear some of my old friends, of the Court of Examiners, recommending bleeding, parging, and glystering without [mcrey, without hesitation, I could not refrain from smiling at the recollection of the rebleedare, the repurgare, the reclystarizare, of Moliere. Adhesion of parts cannot take place under such circumstances, and the less physic a person takes the better. If he should have been so unfortunate, as to have swallowed it, he must nevertheless lie still, happen what may.

An ordinary wound in the abdomen ought to be treated in a similar manner, although a very long one may require a stronger stitch here and there, I have heard it recommended, in such cases, to send a needle through the muscles, and to sew them together; but this was done by gentlemen who did not know, practically, that the muscles of the abdomen do not unite by muscular or tendinous fibres—they adhere by cellular membrane, become afterwards separated, and a herniz is always the result. Fancy a person with his curved needle, three inches long, working away at the belly of a gentleman who has two inches of lat under his skin, and you may understand what a pretty business it must be for the stitcher us well as the stitched -and all for nothing.

A plastic fluid of a very adhesive nature soon begins to exude from the edges of a clean cut wound, and reunites them to each other. If the lung should fall against the cut part, the object sought for by placing the patient on the wounded side will be attained; and if it should be so,

lneky fellow, if there have been any previous inflamination in the chest within a few months, by which the two pleurse are agglutinated. When a ball enters the cavity of the chest, it deprives the parts it injures of the capability of adhering to each other, until after some portion of their abraded edges have separated by a process which occupies several days, and suppuration has taken place, which, with the fluid secreted during this time from the inflamed surface of the cavity generally, will fill the chest and, if not evacuated destroy the patient. I have seen in London, and have had more or less the charge of eight recent cases of wounds of the chest, implicating its cavity; two only have survived. Lord Beaumont is one, Mrs. Magnus the other. I saw her at ten o'clock in the morning after the injury, with Mr. Adams, who came to my house for me. The ball—a small pistol bullet entered on the right side from behind, between the seventh and eighth ribs, just under the arm, when hanging down, and passed out in front, over the cartilage of the sixth rib, more than an inch from the pit of the stomach. She had not spit blood, it was easily ascertained by the ear, when carefully applied to the wall of the chest, that the lung was pervious to air, which induced me to suppose that the ball might not have penetrated the eavity, although it might have injured or grazed the membrane lining it. I abstained, therefore, from probing the wound, lest I might make that a penetrating wound, which was not so at the moment. She was suffering great pain, had great difficulty in breathing, and was much oppressed. And now as to the question of enlarging the hole thus made? If I had believed that the ball had passed into the cavity of the chest, I should have ut once enlarged it, as a hole is a hole whenever made, and it is as well done at once as afterwards, for a secretion of fluid will take place about the fourth day, and must be evacuated. As I did not believe that the chest was penetrated, Mr. Adams bled her in two bowls and a wash-hand bason, till I found by my finger on the pulse that she was in the act of fainting. She lost at this bleeding more than a pint and a half of blood, about half as much as was taken from Mr. Drammond altogether; it shewed the strongest signs of high inflammatory action, and she was so effectually relieved by the quantity removed, that it was not necessary to bleed her again during the treatment. At the end of three weeks of gradual improvement, she was removed from the Auction Mart Coffee House to a private lodging, the excitement of which was, in all probability, the cause of her spitting a little blood, which he did on three occasions, when I was desired to see her again. It then appeared to me that the injury of the lung was probably confined to a small point, and as the symptoms were not argent, the palliative system was persisted in. I saw her with Mr. Adams a third time, to confer on the propriety of her being examined before the magistrates; I went alone a fourth time to see her in order to ascertain her actual state after the wound had healed, and she was, in my opinion, able to take care of herself. I came to the conclusion that the ball had not struck the lung, nor penetrated the cavity of the chest in the first instance, although it had injured the membrane lining it, and had given rise to ulceration of a small portion of the lung after it had adhered, and by thus adhering (which can be ascertained by the ear) the patient was saved. This case reflects the greatest credit on the ability, talent, and attention of Mr. Adams. and shows the propriety of not probing these wounds when there is a hope of their not having penetrated the cavity of the chest, and for not doing which he merits the highest praise.

It would, however, be wrong in me who know better, and it would only lead you into error, if I were to allow you to suppose that a penetrating would of the chest and lungs could ordinarily be treated with success in so simple a manner, There never has been any case of wound of the lung which recovered without extreme Imzard and great loss of blood. Mr. Drummond was wounded in the back, about two inches from

From the absence of all the sympin front. toms of alarm or shock that usually indicate the lesion of a vital part, I was willing to hope that the ball might not have penetrated the cavity of the chest; and as the opening made by it was too small to allow the finger to follow it, especially as Mr. Drummond was a very stout man, I did not choose to run the risk of examining it with a probe, which, if the ball had run round, might have done much mischief. The extraction of the ball was a matter of no consequence; it would have remained where it was without doing any harm, but there is a common prejudice in favour of removing it; and I also did it, because I was auxious to find, if possible, some confirmation of our hope that the ball had gone round outside the cavity, by being able to trace it from before backwards, it only for an inch. I could not, however, trace its passage in any direction, nor could I do it in a satisfactory manner on the examination after death. It passed from the omentum to the edge of the end of the eighth rib, but how it jumped thence to the place where it was lodged, I cannot exactly explain, and would recommend your applying for further information, if you require it, to the Lord Mayor. His Lordship was able, from hearing a statement of the case of Mrs. Magnus, according to the report in the papers, to decide without knowing anything of the nature or treatment of Mr. Drummond's wound, that the two cases were exactly alike in all respects. Now his Lordship could only have discovered this from that omniscience which naturally falls upon a chief magistrate, on his attaining office, and which I trust, he will exercise on this point also for your edification and mine, and that of all other ignorant people, who are willing to rely apon his knowledge and discretion upon so delicate a subject.

The ball was extracted at 5 p.m. on Faiday evening, and I saw Mr. Drummond again at 8 and nt 12, and, as he was quite easy, I left him with the hope that our lost wishes might be realized. At five in the morning of Saturday I was sent for, and found him suffering from great uneasiness, and difficulty in breathing, accompanied by a particular catch or jerk in respiration, that indicated a wound of the diaphragm. The chest sounded well to the ear in every part, and I had no doubt of the substance of the lung having escaped any serious mischief although it might have been injured by the ball passing between it and he diaphragm, I opened two veins in each arm, and obtained, with great difficulty, about 12 ounces of blood, the veins being small, and the arm very fat, so that the bleeding was stopped by the fat closing the openings I had made. It gave him some relief: the blood was neither cupped nor buffed: at 10 o'clock Mr. Cooper and Mr. Jackson decided, that as the difficulty of breathing was greater, the jerk had increased, and there was great oppression and misery, although he was not in absolute pain, and the pulse was 112, (they only varied from 108 to 112 during the remainder of his life,) he ought to be bled again. Mr. Cooper tried and failed to draw blood from either arm, and I requested him to open the left temporal artery. This he did with his accustomed dexterity, but the artery would not bleed nor another small branch which I opened myself, and only four or five ounces, at most, could be obtained. He had taken four grains of calomel over night, and was to have had a saline aperient draught every six hours; the nurse, however, who obeyed my directions to examine carefully all the excretions, informed me, that he had passed a tea-spoonful or two of blood, and the aperients were immediately suspended, I now had reason to believe, that the ball had not only wounded. but had penetrated the diaphragm, and had probably opened an intestine, and that the cavities of the chest and abdomen had both been injured, and must become inflamed. With a constitution apparently unequal to bear an inflammation of the most dangerous character, which I knew must ename, or the remedies necessary to subdue it, the prospect was a mel melioly one, and I did not conceal it from his family. Three dozen leeches were applied to the side, but they drew very little blood, and the bites would not bleed

Drummond to add him to our consultations, night and morning, and we had the advantage of his assistance during Sunday and Monday. symptoms of inflammation, which appeared on the Saturday morning, did not increase during the whole of Sunday, and at the consultation at 10, on Monday morning, we entertained some hope that they would remain within reasonable bounds. At 12, Miss Drummond sent to tell me that he was much worse. I found him suffering great pain and uncasiness at and under each wound. with a greater jerk and oppression in breathing. I ordered him half-a grain of the muriate of morphia, and summoned Dr. Hume, Mr. Cooper, and Mr. Jackson for two o'clock. He slept a little, from one till two; the symptoms were, however, urgent, pulse 112, and it was at once decided he he must lose blood, and the cupper, Mr. Mapleson was in attendance; but as copping is but a bad substitute for general bleeding, I determined to try again to bleed him, and the same vein which could not bleed before, now yielded twelve ounces, when the fat interfered, and no more could be obtained. The blood, before it separated into its solid and fluid parts, was actually like size in colour, and soon enpped to an extreme degree; its abstraction gave him relief. Two grains of calomel with half a grain of opium were ordered every two hours. At ten at night Dr. Hume, Mr. Cooper, and Mr. Jackson saw him again and although he had been relieved by the bleeding, and had slept a little, the oppression and painful uncasiness had returned with even greater sevority, and he was again bled to the amount of from 12 to 14 ounces, when the blood ceased to flow, apparently from the same cause, the fat intervening, although the pulse remained unaffected. This again greatly relieved him. At five next morning (Tuesday) Mr. Jackson and I were sent for in consequence of the return of all the symptoms, and particularly the jerk and difficulty of breathing in a more aggravated state. He had slept but little from the opium, and it was not to be doubted that be would soon die unless relief could be obtained; twelve onnees more blood were accordingly drawn from the other arm. This time he bled freely, and more might have been obtained, had it been prudent to let it flow. It was equally as yellow, as cupped, and as firm on division when coagulated, and the solid part was in as due proportion with the fluid, as on the two previous occasions, and the relief obtained was equally satisfactory. I had seen Mr. Drummond six times in each 24 hours, besides an hour or two spent with him during the night. I had ascertained by ear, three times a day, the state of his chest, and when we met on Tuesday, at the usual hour of ten, t knew that our patient could bear no further loss of blood with advantage-that fluid was collecting in his chest, and that if he lived, it must soon be evacuated to prevent another evil more certainly fatal than even inflammation. It was with very mournful feelings I said to Mr. Cooper and Mr. Jackson, for whose able and cordial co-operation I am grateful, "If we bleed our patient again, we shall lose him, and we shall lose him equally if we do anything else.'

Dr.Hume could not attend and as there was some doubt as to the quantity of fluid which there might be in the chest, and I was determined to leave nothing undone that could give him the smallest chance for life. I requested Mr. Charles Drammond to allow the nearest physician of repute to replace Dr. Hume. Dr. Chainbers, on his arrival, approved of all that had been done, but could, unfortunately, add nothing to what was doing, and the calomel and opium were continued with an additional dose of morphia. I explained to him what would be necessary to be done in regard to the evacuation of the fluid in the chest, as soon as we could be sure that the quantity collected (which is easily ascertained by the ear) was seriously compressing the lung, and preventing he due admission of air into it. We met again at 1 P.M., by which time he had had some sleep, the uncasiness and oppression had lessened, the breathing was easier, he was in good spirits, and the pulse 112, compressible and soft, but not weak. He had lost about fifty-six ounces of blood the spine, and the ball was found half an inch afterwards. Dr. Hume, an old friend, having by Mr. Jackson's computation, in four or five days, under the skin, nearly at an opposite point called to enquire after him, I requested Mr. C. We thought him better, and expressed our hope to his family that when we met at 10 at night we should be able to give a more positive assurance of real amendment. At 7, Miss Drummoud sent to say some change had taken place, and that he was worse. I went to him directly, and found he had no pulse at the wrist. At 10, when the other gentlemen arrived, they were not less surprised than I had been at so sudden an alteration. He died at 10 the next morning without any greater suffering than that which he had always complained of, and particularly of an in-

atways companied on and particularly of an assupportable uncesiness and difficulty of breathing.

The post-morten examination you know. The blood which was diffused over the right side of the abdomen must, I think, have been forced out on the separation of the injured part of some vessel, which had been hurt in the transit of the ball through the abdomen, but which was not disco vered from the parts injured being impacted together from the effects of inflammation. I am of opinion than this bleeding principally took place on Tuesday afternoon, and was, in addition to the destroying and incurable nature of the wound, the immediate cause of his dissolution. The quantity of-blood in the abdomen could not well be ascertained, as it was diffused over every part of the right side; it was not less than twelve onnees, and night have been twice that amount. He never complained of measiness in any part of the abdomen under the most careful examination, except beneath the part where the ball was extracted.

As I do not think, gentlemen, I shall write the fifth book, or at at all events, for some time, I will take up each of these subjects separately in some

future clinical lectures.

LECTURES ON CHEMISTRY.

P. JOHN SCOFFERN, M. D., Lecture, ... Chematr., if the Alder ofe School of Medicine

THE substance, indiae, so allied in many of its leading properties to chlorine, was discovered in 1811 by M. Courtois, a manufacturer of saltpetre. at Paris: its properties, however, were first investigated by Chement, Davy, and Gay-Linssic. On account of the properties it has of yielding violet coloured vapours when heated, it has been termed iodine, from Ioudes, viólet. Todine is found in both kingdoms of nature rather widely, if not largely diffused. In the inorganized kingdom we find it united with certain ones of silver, of cadmium and zine, and of lend. Sea-water from every region, co far as experiment has been made contains it, probably united with sodium and magne ium, constituting iodides, or iodurets of there metals. Certain mineral waters also contain it for instance, in a brine pring at Nantwich, in Cheshire, there was about a grain of redine in twelve gallons. It has also been discovered in the rock alt of the Tyrol. The fact of its discovery in brine springs and rock salt is exceed-ingly interesting; for, on the supposition that both are the results of depositions from an antechhavian ocean (which is the theory generally received) the latter must have had the same constitution as the oceanic waters of our own era. Tolline has also been found in several other mineral prings. Copeland detected it in the carbonated chalybeate of Bournington; Dr. Daubeny found ten gallons of Robbin's Well at Learnington to contain about one grain of iodine; Cheltenham water contains it too, but in a mach maller proportion; iodine les moreover been di covered in several German, Italian, and South American mineral springs. In the organized kinedom the presence of iodine seem confined to certain of the lower animals and vegetable. The animal genera, Spongia, Gorgionia, and Doris, have been proved to contain it; and it is, moreover, found in the envelopes of the eggs of the sopin, or cottle-hole. One instance occurs of its pressure in the order inserta: near A celti, in Italy, an insect has been found, termed by Savi I dus fatuli amus, which, when irritated or disturbed, emits a yellow fluid strongly smelling of iodine, and which yields a blue colour with starch a character, a we shall see hereafter, which is peculiar to indine.

In marine cryptogamic vegetables, radine is very generally diffused, and it has been found in several

species of phrenogamous plants. Hostera marinaand a Mexican species of Agave, and of salsola, may be mentioned as examples.

Extensively diffused throughout nature, as we have described io line to be, yet the only commercial source for this body is kelp—the result of the combustion of plants belonging to Fucordee, one of

the divisions of the family Alga. The substance kelp, which is a semifused mass of ashes, from the plants just mentioned, and which contains a great number of saline materials, was formerly prepared almost for the exclusive purpose of forming the carbonate of soda; now, however, this salt is obtained from the decomposition of chloride of sodium, and kelp is almost exclusively manufactured for the purpose of obtaining from it ultimately the body iodine. theory of the process will be rendered intelligible, by remembering that the iodinc of kelp is in union with sodium and magnesium, as iodides, or iodurets of the metals; that those salts are more soluble than any other simultaneously existing in kelp; and that, when separated, they may be decomposed by heating with sulphuric acid and binoxide of manganese, yielding pure iodine, just as chloride of sodium is decomposed under precisely similar circumstances, yielding pure

In order, then, to proceed in accordance with these principles, kelp is first lixiviated with water, by which means a carboneous mass is left undissolved, and all the saline materials obtained in solution. This solution is then evaporated in an open pan, when the various salts which it contains are deposited in an inverse order to their solnbility. First are obtained the soda-salts, namely, common salts, carbonate, and sulphate of soda.—all of which are separated by a perforated shovel. The liquid is then run into narrow pans. and allowed to cool, by which means are obtained chrystals of chloride of potassium. The same operations are several times repeated until certain indications of color and density prove that little except the iodides of sodium and magnesium remain. To this is added sulphuric acid in excess, which decomposes any carbonate there may be present, and also the sulphurets which have been produced during the burning of the plants. ley thus prepared is added peroxide of manganese. in a leaden retort imbedded in a sand buth, and heat being applied, iodine comes over, and is collected in proper receivers, mixed however with a variable portion of water, which is rather difficult to be separated entirely, and indeed which the manufacturer has no great inducement to attempt. Should it be desirable however to a certain the quantity of water thus mixed with any sample, the problem may be thus solved :- Heat the iodine in a tube with a little fused chloride of calcium, which substance absorbs all the water, and at the same time becomes mechanically mixed with iodine; on increasing the heat, however, the latter may be entirely dissipated, leaving nothing but chloride of calcium, and the whole of the water. con equently, the increased weight of the chloride of calcium corresponds to the amount of water; originally present in the specimen. The theory of the liberation of jodine by the action of sulphuric acid and the oxide of manganese on the bodide of sodium, or magnesium, or both, is precisely analogous to the change which takes place when chloride of sodium is similarly treated, and on the supposition that iodide of sodium is alone pre-ent is represented by this formula-

SO + MnO and Nal give Mn.O.SO NaO and L ledine has a bluish black color, something recombling in appearance plumbago, or black lead. It is a non-conductor of electricity, and whether passed through red hot tubes, or treated in any other way, it has never yet been resolved into any simpler form. At is soft and friable; its specific gravity has never been correctly determined. Thomson makes it 3.08-Gay-Lussac 1946. It produces a yellow stain upon the skin, which, however, is removed by the application of liquor potassie, or by heat, -thus distinguishing it from the yellow stain produced by nitric acid. When moist, it is exceedingly volatile, yielding at a temvapour. At 220° it fuses, and at 350° boils, and the action of hydrochloric acid on chlorate of

produces fames of a denser color, which yield brilliant plates, and acute octohedrons on coolinglodine may be obtained from solution in the form of oblique octohedrons, with a rhombic base, or in prisms. The vapour of iodine is exceedingly heavy, its density being, according to calculation, 8707. lodine is slightly soluble in water, seven thousand parts of the latter dissolving about one part. In alcohol and other its solubility is much greater. It may also be dissolved very readily in solutions of the iodides. The peculiar color of iodine vapour is, in many cases, a sufficiently characteristic test; but a far more delicate one is starch, as was discovered Messrs. Colin and Gaultier de Claubry. To this it imparts a blue colour, capable of removal by the application of heat or an alkali. Microscopic experiments teach us some very curious facts in relation to the mutual action of iodine and starch: the latter substance is composed of minute globuloid molecules, composed of an external envelope, amydon, and an internal gela-tinous mass, amydine. Now it is on the former alone that iodine everts any agency. We learn, too, that no two vegetables of different kinds yield starch undecules of the same shape or size; thus preparing us to expect some differences in chemical composition. Such have not always been satisfactorily established, but at all events, iodine yields with different varieties of starch different shades of blue, and inulia, a starchy substance obtained from the inula hellenium; or elecampane merely tinges a solution of iodine slightly yellow. In testing for iodine with starch, it is indispensable that the solutions be neither alkaline nor hot; in the former case two salts are produced, namely, an iodide of the metallic radical, and an iodate of the alkali, neither of which is capable of acting on starch. The action of heat in removing the colour is not understood; theory would indieate that the iodine, being volatile, is eliminatedsuch cannot be the fact, masmuch as the colour returns when the solution has again become cold. Iodine is said to be occasionally adulterated with plumbago, sulpluret of antimony, or peroxide of manganese; frauds which can be easily detected by the action of alcohol.—all except the iodine remaining undissolved. The atomic weight of iodine may be considered as about 126. In all its relations, iodine presents a remarkable analogy to chlorine; but its action is not so powerful. Like chlorine and oxygen, it appears at the positive pole or anode of voltaic arrangements, and is hence classed with the electro-negatives. much, then, for the properties of iodine in its simple or nucombined state; we now come to its combinations with oxygen. Of these there are three, or according to others, four, represented by the accompanying table.

 Oxide of iodine
 1
 1
 1

 Iodous acid
 2
 1
 1

 Iodic acid
 5
 1
 1

 Periodic acid
 7
 1
 1

Of these only the iodic acid is important or interesting; the composition even of the two first is undetermined. Periodic acid is prepared by a tedious process, and is so unimportant an agent that I shall not mention it further. Lodic acid is, as you will have perceived by the table, a compound of one eq. iodine and five oxygen, being analogous in this respect to the nitric, chloric and bromic acids, with all of which indeed it corresponds in many leading properties. Todic acid cannot be obtained by the direct action of oxygen upon iodine, hence the processes for making it are somewhat complicated. According to Mr. Connell it may be prepared by boiling judine for several hours with about five times its weight of strong nitric acid. theory of the preparation of iodic acid by this process is very obvious; nitric acid, as is the usual result under similar circumstances, that is to say when boiled with substances greedy of oxygen, yields up this but r element in the requisite proportion. I have tried this process several times. and have never found it capable of vielding a good result. A better process, although exceedingly tedious, consists in bringing the vapour of jodine in contact with protoxido of chlorine, prepared by

potash; two bodies result, chloride of iodiuc and it at all, he does so very inefficiently and very iodic acid, the former of which may be driven of by the application of heat, leaving lodic acid pure, in the form of a white powder, very soluble in water. Its solution possesses acid properties in a very marked degree, tasting exceedingly sour, and strongly reddening litmus. On a solution of cold starch it does not exert any action, but when mixed with deoxidizing hodies, such as sulphurous acid, or chlorine, and then added to a cold solution of starch, the usual blue colour appears, on account of the abstraction of oxygen, and consequent liberation of iodine. Hence it is that iodic acid is a very valuable re-agent for determining indirectly the presence of sulphuric acid. The theory of this action involves certain substances not yet spoken of in these lectures, but still I hope to render myself intelligible. I must premise that although we possess a very good direct test for sulphuric acid, or oil of vitriol, in baryta, or soluble barytic salts, yet it is absolutely necessary to their complete action that the sulphuric acid be uncontaminated to any very great extent with organic matter. It follows, therefore, that in case of poisoning with sulphuric acid the determination of the presence of this substance is by no means easy according to the usual course of proceeding. If sulphuric acid, which is composed of one eq. of sulphur + three of oxygen, be heated with almost any earbonaceous body, two eq: of oxygen are removed from every two eq: of sulphuric acid, carbonic avid escapes, as also does sulphurous acid, or SO2. That sulphurous acid really is eliminated during this proceeding may be determined by heating a fragment of vegetable or animal matter, such as cork or feather, with sulphuric acid in a test tube, when there will presently be given off a gas smelling like an inflamed brimstone match; this is sulphurous acid. Sulphurous acid then is nothing more than sulphuric acid deprived of a portion of its oxygen, which portion will be absorbed again on any convenient opportunity. Now iodic acid yields up its oxygen with great readiness, and a stream of sulphurous acid being passed through it, there result free iodine and sulphuric acid. From a consideration of these facts we learn a very easy process for determining the presence of sulphuric acid in a stomach. We will suppose that it is there mixed with all manner of animal and vegetable substances. The latter cannot be separated, nor must they it possible; but the whole of the contents should be placed in a enpacious retort, together with a little powdered charcoal, to insure the presence of a sufficient quantity of carbonaccous matter; the beak of the retort beinglinserted under a mixture of starch and iodic acid, the heat of a sand bath should be applied. Presently, under these circumstances, sulphurous acid is liberated, which decomposes iodic acid, abstracting oxygen, and necessarily eliminating iodine, which latter immediately tinges the starch blue, whilst sulphusic acid, proportionate to the quantity originally existing in the stomach, is left in the vessel containing the starch and iodic acid. For sulphuric acid, then, iodic acid is a valuable test; it is also a test for morphia, which abstracts oxygen from it, although slowly, and of course renders it capable of imparting a blue colour to starch. Chlorine and iodine unite together in two proportions, but the resulting compounds are unimportant.

COURSE OF LECTURES ON THE DIAG-NOSIS, PATHOLOGY AND TREATMENT OF DISEASES OF THE NERVOUS SYS-TEM,

Fy MAR HALL HALL, M.D., F.R.S., Lettow of the Royal College of Physicistics, London, &c. &c.

(Incurs IN , Deterred December 21st, 1812.
GENTLEMEN. - Before I proceed to the subject of the true spinal marrow, I wish to draw your attention to a point or two which I left unnoticed at the former lecture. Now, if you fix your eye on the line marked A B in the diagram before you. you will see that it denotes the seat of hemiplegia, arising from blood effused in the cerebrum. You will remember that when beceration takes place, then hemiplegia occurs in the opposite side of the body; so that, when the paralysis is complete, the patient cannot move the hand or the leg-or, if he can move sent off, not only those that constitute the canda

imperfectly. The act of volition, in that case, has been by some power or other severed from the paralytic side; there is a division between the seat of volition and the muscles, which ought to be moved by the action. At the same time, when the patient is affected by any emotion or anything of that sort, it is precisely that arm and leg which are the most moved. Therefore, though the volition be severed from the paralytic muscles, motion is not; the seat of volition is, but the seat of motion is not. What is the conclusion to which we must here come? Most assuredly-that the seat of motion, wherever it he situated, must be seated near the spinal marrow in that line which I have indicated; and I want you to see distinctly that the seat of volition is higher in the nervous system than the seat of motion. The same thing applies with regard to respiration: if a patient yawn you find that the paralytic arm is moved, though he cannot move it by any effort of the will. What is the conclusion here? That the source of motion in the act of respiration is situated lower down than the seat of volition. This you see is an important practical point.

Now we know that the source of volition is in the medulla oblongata; why should not the source of motion be in the medulla oblongata? Now I believe that motion has its sole source in the medulla oblongata, and the argument I have adduced goes far to prove, at any rate, that the seat of motion is below the seat of volition. Now we know that in paralysis, which takes place from a lesion of the spinal marrow, producing paraplegia, though both the scats of volition and motion are entire, the arm is moved independently of the former. The conclusion is, inevitably, that the seat of volition is higher in the brain than the seat of motion. This is not all, for there is an extraordinary set of facts respecting pain. You are aware, because I have repeatedly mentioned the fact, that lacerate the brain as you will, you have no pain-the olfactory nerves exhibit no pain —the optic, or the acoustic nerves exhibit no pain: there is no pain inflicted in any of these nerves of the brain, but touch the fifth pair of nerves, which are the nerves of touch, and you have pain. Does not it strike you as an extraordinary fact, that the nerve of one sense should be susceptible of pain, and that the nerves of all the others should not? Yet it is so, and what is the conclusion? It is this, that the fifth pair of nerves contain, besides the nerve of sense, some other nerve that belongs to the spinal marrow, which is the seat of pain.

Now I will detail a very interesting experiment, performed in the most perfect manner, many years ago, upon a rabbit. This little animal was ago, upon a rabbit. This little animal was entirely deprived of the cerebellum, and there was no brain left, but the medulla oblongata remained and the animal breathed. When the tail was pinched violently with the forceps, the animal actually eried; therefore I must not only conclude that the medulla oblongata is the seat of motion, or that it is the seat of the power of respiration, but most probably that it is the seat of pain, There is another thing with which I conclude this observation; it is this-that not only is the lifth pair of nerves capable of conveying pain, but under peculiar circumstances the internal nerves, those nerves going to the intestines and the stomach, and the pleura, are capable of conveying pain. With regard to the intestines and the stomach, that which is said to have nothing at all to do with pain, is actually the seat of pain. have not time to go into this subject, for it would take too long.

We now return to the first part of the argument; when the cerebellum is removed, or disease cuts off the seat of the will, still emotion agitates the paralytic limb, therefore the seat of emotion must be situated lower down than the seat of vo-lition. The seat of respiration we know is in the medulla oblongata. I give that as a reason why the seat of pain is there too. Now I want to bring before you a practical argument; and it is this. You will bear in view the different portions of the spinal marrow, and the manner in which the nerves of the lower part of the spinal marrow are

equina, but the others situated above. Suppose a patient comes to you with paraplegia, as a patient came to me not a very long time ago,—I am alluding to the case from Manchester-saying, have no sensation above this part of the body; my inferior limbs are destitute of sensation and voluntary power, I have lost the power of the sphineters. I am not conscious of sitting down; I have no sensibility. That patient came to me marked with setons and issues on each side of the sacrum. Now it is quite certain that if the disease had got as low as the sacrum, these measures would no thave affeeted those nerves going to the inferior extremities, and therefore I do not see the use of the setons and issues below the sacrum. In order to apply this to disease, we must consider, naturally, the parts affected which produce sensation; we have not to think of those nerves that go to those parts, but it is the origin of them that we have to see to. There was not merely paralysis of one limb, but of both; and in order to have paralysis of both the inferior extremities the disease must be situated in the spinal marrow, that part of the spinal marrow from which these nerves derive their sensation. If you have a reflex action in spite of the disease, a portion of the spinal marrow is left entire; but if have no such reflex action there must be disease as low as the point at which the spinal marrow terminates. Now when you apply your setons you will adopt-what measures? Certainly apply them a great deal above the parts to which they have been usually applied. Therefore suppose the loss of sensation and the loss of voluntary power is at the ischium and the ilium, we must consider the nerves from their origin in the spinal marrow, and apply the setons accordingly; how much higher the disease may be it is impossible to say, except the height of it can be traced by some other symptoms. For instance, suppose a patient has a sense of a cord passing round the stomach, I need not tell you that the disease is at the epigastrium, and therefore, in the former case, you might apply your remedies higher than in the latter; but suppost, as very often happens in some diseased states of respiration, the spasmodic affection takes place in one or both sides in the intercostal muscles, then the remedies must be higher still. Suppose the patient has difficulty in breathing, and there is an affection of both upper extremities, then your setons must be applied' above the origin of the cervical plexus. After what I have said, you will in the application of your remedies be quite careful not to apply them below the scat of the disease.

You are aware of the peculiar paralysis that takes place in the colica pictonum; the muscle paralysed is called the entensor earpi radialis longior, and has the peculiar power of sustaining the wrist: the bones of the thumb are incapable of being extended, though the wrist does not drop, and the ball of the thumb is exceedingly emaciated, so that you can trace the bones of the thumb with great facility.

There is only one concluding remark to this subject which I ought to make. I believe that the affection in this case as, for instance, in inflammation, may run along all the nerve, and create undue sensibility a good way up the arm; and it is quite plain it takes place along the whole course of the nerves, and I can only compare it to the inflammation you see in some severe cases of typhus. The blood becomes congested, its power is annihilated, and the muscles do not contract for want of nervous influence. The nervous influence is not there, for the reason I stated to you. In palsy of the band you have therefore three things, a loss of nervous power running along the whole course of the nerve, an absence of irritability in the muscular fibre, and atrophy.

I said I had only this concluding observation to make, but it appears I have another concluding observation, and it is this: I told you that, in reference to apoplexy of the brain, the opposite state of the brain is what I call an adynamic state. told you what occurred in the case of delirion tremens, and in that case of affection of the brain there was intolerance of light and sound, and symptoms of mania arising from intestinal irritation and the loss of blood, as well as other symptoms. This I consider to be an adynamic state, a true adynamic state of the spinal marrow. We know that there is inflammation, congestion, and apoplexy in dynamic states of the spinal marrow, and we know that there are also adynamic states, such as frequently happen in paraplegia, not perfect but imperfect. In this affection of the spinal marrow, when it is perfect, sensibility is gone, the museular motion is entirely gene, entirely eradicated. This case I believe very often ensues from excessive sexual abuse of any kind. I mention this to you as a fact, and you have to trace to this, the practical effects exhibited in the luture life.

This takes place in a dynamic stage.

t have now to bring before you the subject of epilepsy. With regard to epilepsy, it, like many other diseases, may be traced first of all to the centre of the spinal system, and, in the second place, to the incident nerves that lead to that In the first place, I have to refer to centric epilepsy-1 use the term centric for want of a better term,-and, in the second place, to executric cpilepsy. Another phrase for centric epilepsy has been adopted—centripetal; that is to say, diseases referred to the centre of the whole nervous system, as contra-distinguished from those distant from the nervous system. I must, first of all, say a few words respecting centric epilepsy. Centric epilepsy comes on from some affection of the brain, inducing some morbid state of the centre of the spinal system; a disease of the brain communicated to the spinal marrow, and leading to a state of irritation, and to nothing more; for I need not tell you that if the state of the disease went on to produce any further effect you would have paralysis with epilepsy. It has been found that a spicula of bone has passed into the eavity of the cranium, or into the spinal canal; and this acts as an irritant. You will remember the remark I made some time ago, that this irritant passing into the cerebrum will produce no epilepsy, because no irritation of the brain can produce any muscular motion; therefore it must be taken as certain, that in the case of a small bone producing epilepsy in the way I mentioned, it must produce epilepsy, not by irritating the brain, but by irritating something else. You will remember the brain is incapable of sensation; you cannot produce any effect by irritating the substance of the brain, but you may by irritating the membranes of the brain. We know, that irritation of the fifth pair of nerves going to the brain, will cause epilepsy. Now, it has been proved that injury of the lining membranes of the spinal marrow will produce certain states resembling epilepsy: therefore if you have spicula of hone producing epilepsy, you have not only the nerve irritated but the membrane of the nerves, and not the brain itself. And therefore, a tumour, or any source of irritation, may be the means of producing epilepsy; in fact, other things produce epilepsy, as, for instance, congestion of the brain, attended with convulsive motions; a state of congestion once produced may, therefore, produce similar motions, which may go on to the extreme state of epilepsy,

There is one other cause of epilepsy which I must mention. It is a disease the most severe of any I have ever met with, and which seems to be almost incurable; it is that disease which results from fright. I am not aware of any case that ha yielded to any remedy; probably some may, but I have not met with any yet. Epilepsy arises from fright, and whenever fright produces epilepsy, it is a spinal affection, and you cannot trace it beyond the spinal system the true spinal marrow itself.

I have now gone through all the symptoms of centric epilepsy, and, therefore, what I am now going to say refers to the subject of excentric epilepsy. Executric epilepsy may be traced to three causes, as shown in this diagram;

TABLE OF EPILEPSY.

t. The increases 2, the clark 1 increases.

1. The pneumogastric 2 1. The recurrent of in the stomach 2 the pneumogas.

2. THE SPINAL.

1. The intestine

2. The aterus

the pnemiogastric, closing the Lirynx 2. THE SPINAL.

1. Foreible expira-2. Convulsions

3. Expulsion of the

urine, &c.

In tracing the causes of epilepsy we must go to the nerves. In the first place, the gastric nerve is affected from some morbid state of the stomach; or, secondly, it may be the planchnic nerve from some morbid condition of the intestines; or it may be, thirdly, uterine, where it indubitably does arise from an affection of the nterine system. When the stomach, the bowels, and the aterus are in a morbid state, this norbid state may act on the nerves proceeding from those organs just in the same way that cold water acts on the nerves of the face, affecting through their medium the centrethe spinal marrow itself; and then, reflected from the spinal marrow, you may have all the symptoms of an epileptic seizure. What then are all the symptoms of an epileptic seizure? You have only to refer to what I said respecting the true spinal sy-tem, and just call to your mind all the points supplied by that system, and then you can account for all the symptoms characterising an epileptic scizure.

Now I shall first of all describe an epileptic seizure, and I can do so the better because I have seen such a case this morning. Now the first thing I observed was some impediment in the breathing. The larynx is affected in an epileptic seizure. It often happens that the larynx is partly closed, and there is a feeling of nansea and stertorous breathing. There is you cannot fail to observe, a difficulty to expire, and in consequence of that the patient becomes flushed in the face, and by and bye becomes comatose. The laryny, then, is the first part affected in an epileptic scizure. Now I have to state a fact which is an exceedingly interesting one; and that is, an affection of the laryny sometimes precedes an epileptic seizure. I have a patient whose wife can partly tell when the affection is coming on, because he is affected with a busky voice, something like that of a catarrhal cold; yet, his wife was enabled to distinguish it from the voice of a cold, from the habit of frequently observing it. This is one of the premonitory symptoms. The larynx, too, remains affected after an attack. After a short time he lost his voice altogether. What do we next observe? The eyes are affected. I have seen the eyes rotate, and when that happens one side of the body is affected more than the other. The eye, therefore, is the next point offered by an epileptic seizure. I need hardly tell you, that with the state of the laryny to which I have alluded, the respiratory muscles are affected more or less under the influence of the true spinal system. Another thing not to be forgotten is the difficulty in swallowing. I was almost terrified by the attempts of the patient to swallow a little sal volatile, patient to swallow a little sal volatile, Gargles were tried, but scarcely ever swallowed; and at other times the matters that were given were all withdrawn into the larynx. One thing should not be done; you should not attempt to give anything to the patient during an epileptic fit.

All the muscles of the frame are violently convulsed; both the superior and inferior extremities. Now what takes place next relates to the true spinal system, and these symptoms relate to the lower part of the abdomen. You have very frequent evacuation of the bladder and of the rectum; these are not uncommon symptoms in a state of epilepsy. What mere can be said to prove that the true spinal system is affected! You observe that the flow if the catamenia occurs in the female sex, and you find that every function that relates to the true spinal system is partly affected in this terrific disease. Now, to revert to the causes-what are the causes of epilepsy? Precisely those that happen through the medium of the incident nerves; instance, any crudities in the stomach. I have been called to see a patient who died in a state of epilepsy and whose stomach revolted against everything. That patient, who never had an attack of epileptic seizure, and, probably, never would have had it but after meals, was a Lidy, who for a long time, had an attack every day after dinner, The object to attend to there, was repursue mild measures, to give a mild breakfast, a similar lunch, and a similar dinner; and being put upon this diet, which comprised asses milk, she as for a long time without any epileptic seizure. This lady a very short time ago, ate water cresses

for breakfast, and that very day she fell down with an epileptic seizure. Now, if the bowels get wrong the patient may have an epileptic seizure; the patient may go on very well afterwards, but isliable very mement to a renewal of the old attack.-Nothing tends so much to produce an epileptic seizure, as anything that irritates the intestines: and if true epilepsy arises from the intestines you may be perfectly sure that the intestines are in a disordered state. In fact, every disorder in the intestines will produce it. Here the true source of the affection is the recito-motor nerves; but it is singular enough that the very same nerves, when irritated, will produce opileptic seizure in one person, and in another, those nerves will produce comiting. I have observed, with regard to the female ex, that the epileptic seizures occur more at one period than at another; it is either just before the eatamenial flow, during it, or just after it. Here you have a proof of the epileptic seizure, being one of the excentric kind, and induced through the incident nerves in that state of the uterus. I shall by and bye show another fact that relates to the pregnant state of the uterus, for you are aware of the convulsions that take place in certain states of the uterus during pregnancy. I have proved to you that epileptic seizure has reference to the true spinal system, Does that leave the brain entirely out of the question? By no means. Then you will say, why place it out of the question in a case of epileptic seizure? With reference to what I said at the beginning, that the laryux is frequently closed, and that there are violent efforts of expiration, the veins of the neck and face are swelled, and there is a flushed face, you may be perfectly sure, that if there is a flushed face, there is congestion: it is plain, therefore, that the brain is congested pari passu, with the diseased state of the nerves. Now, I go further than this; you find on the face eechymosed spots, which do not disappear under the pressure of the finger; and I suppose, in that case, that under the effect of this closure of the larynx, and the violent expiratory efforts to expel the air from the lungs, the capillary vessels are filled, and the blood is not expelled;—it is venous blood—not arterial blood. This is one of the consequences I have repeatedly seen in a state of congestive apoplexy of the brain. Now, there is a curious idea I have often heard, and it is this,—that in this state of the brain, when the patient is so convulsed, tracheotomy will prevent the violent congestion of the brain, which occurs during an epileptic scizure. I do not recommend it to be done. Now, why do I think there may be congestion?

I want to introduce to you one or two interesting facts. I spoke of epilepsy as being a true spinal disease, but there are cases of epilepsy so different from anything I have described to you, that I am not very sure that they are produced by disease. In one case an epileptic patient shall be reading, and all of a sudden will stop reading. There is an annihilation of thought, a loss of all recollectionwhat some have described as absence of mind, The oblivion, however, is so short that the patient comes to himself almost immediately, and it is not accompanied by any of the consequences observed in the more determined disease. I have had a number of such cases, in which there has been a sudden loss of recollection, a loss of mind for a moment. The patient has stopped reading, and in a moment or two he has continued with the word with which he stopped. You see this is a case of epileptic science, and not of the true spinal system. But I think there is some little difficulty in this. I think it very probable that the muscles closing the larvny, are contracted from the disease so as to produce a momentary congestion, and that issues in momentary delirium from the determination of blood. However true my explanation may be, the fact is true, namely, that the patient is attacked with a momentary loss of mind and con-There is another form of epilepsy 1 scionsness. must mention to you, a form that you may be acquainted with, as it is a form not unusual, that is, loss of the power of the muscles of the head. There is a momentary loss of consciousness, and a momentary loss of power in the muscles of the head

These are the principal forms of epilepsy

that I have to mention to you, and I think that in what I have said, I have given you a clear idea of all the symptoms of the disease. We now proceed to the treatment. The treatment almost suggests itself to you; yet there are a great many remedies, and it is exceedingly important that you should ascertain which to use. In the first place you have to endeavour to abate the symptoms. In the second place we must look to the intestines, With regard to the intestines, drastic purgatives do not do good; the best plan is to give some mild aperient over night, and wash out the intestines next morning. I may give an illustration of this injection. If the syringe is used repeatedly the intestine is distended, and the pain is increased by stimulating and irritating the intestines, and the plan to adopt is to fill the intes-tine but not in the least to distend it. Having washed out the intestine, the next plan is to give something of a soothing and quiet nature; to desire the patient to take a warm bath, and to give warm drinks. I am quite sure that this plan has a very important advantage, particularly with reference to the uterine region. It is not only important to prevent an attack, but if a person has had one attack he is almost sure to have another; and sometimes—and it is a very curious fact connected with attacks of epilepsy-if a person is some time without the usual attack, there is great danger of another attack. Sometimes you find that there is one attack, then some time after, another, and after another relapse, two together. Until something has taken place in the constitution, the attacks are liable to be repeated. If a patient has been without an attack some time, there is danger of another, and when that does take place you have no longer the same degree of danger; but, when he has had only one attack, there is danger of a second or a third, it may be one, more frequently two, and sometimes three, before the tendency is entirely exhausted. Now, I have sat by a little child, with a feather dipped in cold water, and have dashed the cold water on the face to prevent the larynx closing, and to produce an act of respiration, and I have kept off the violent convulsions for hours together. With a patient residing near me, I have occupied nearly three hours in that way. I dashed cold water into the face, the air passed into the lungs, the larynx opened, and the attack was kept off for the mo-There is a very interesting paragraph in the work of the late Dr. Davy on treatment for convulsions; he adopted the same measure, that of dashing cold water on the face, and kept off the convulsions. I have a patient who for some time was afflicted with epileptic seizure; I was obliged to tell him to give up his office, for he had been a good many years subject to epileptic seizure. He had a little husky voice, and whenever his lady observed his husky voice she gave him plenty of boiling water to drink, and tickled his fances with a feather, so as to produce a kind of vomiting. Again the attack came on, and she kept it off in that way again and again. He was obliged to adopt a degree of fasting. Suppose the attack made its appearance in the morning, he would take no dinner, except a little barley water, and a mild aperient at night, and he would thus escape the attack. Now you will observe there are a number of things to do. In order to go to work immediately, look to the state of the stomach and the state of the bowels, and then you have to consider whether you cannot do something by dashing cold water on the chest, and then try to produce vomiting, by the application of something to the fauces. Sometimes a pinch of smiff, to produce sneezing, upon the same principle prevents epileptic seizure. These things should be borne in mind, because they are of constant operation, and are therefore of great importance when you are called to see a patient in a state of epileptic seizure.

Before I conclude this subject I must say one word respecting that state of the brain that occurs after an epileptic scizure. Generally speaking, it is a state of apoplexy or coma, a state of stupor or sleep; the patient almost invariably sleeps after an attack of epilepsy. This fact may lead you to

day, or even the next day; sometimes he may continue to sleep for a day and a night. I remember a case of a patient in a state of deep coma, but he died of apoplexy. He ought not to bave died, that patient was not bled. If I were called to such a patient I should blood him, because I should know that there was apoplexy. After such a state a patient becomes liable to such attacks, and I would relieve the brain for fear it might undergo some injury. If this state continue, I need hardly tell you that it will lead to effusion, and the longer it does continue, the more injury will the brain

PHYSIOLOGICAL CHEMISTRY.

(B) Mr. PRATER, Lancet.) (Concluded from p 390.)

All the various actions already alluded to, platinum in nitric acid, crystalisation of a saturated saline solution, &c. &c., cannot be referred, as he would insinuate, to the same cause: we have only to look more narrowly into the phenomena, to be convinced of this.

There is one thing in regard to fermentation, where vegetable juice (where gluten) is present, that distinctly separates such phenomenon from the great bulk of chemical actions; I allude to the reproduction of the ferment, which, says Liebig, is sometimes twenty times its

weight.—(Op. cit., p. 588.)

Now the resemblance between this action and that of nutrition or generation in living matter, cannot fail to excite notice: for here we have matter converted into its like from the contact or action of other matter, carbonic acid and heat being evolved too, as when new organic beings are produced. And to make the analogy still more complete, this reproduction of the ferment only takes place when the solution contains gluten; or, in other words, a vegetable juice, possessed, like the blood of animals, to a certain extent, of life, as containing globular particles; for (says Liebig) when only a solution of sugar is used with the ferment, there is no reproduction of this latter: the action then, when no gluten is present, merely extends, or spreads, as it does in combustion. In the mere fermentation, &c. of sugar, the whole of the matter is changed into combinations of a less organic character than sugar, viz., alcohol and carbonic acid: so it is also where gluten is present; but besides this, in the latter case is a real formation of organised, or incipient organised, matter. And it is worthy of observation, that, as when sugar and yeast only are present, there is no reproduction of this latter; in like way, when only gluten is present in solution with the yeast, the yeast is not reproduced. Sugar must be present, which is for the most part changed into carbonie acid and alcohol, the remaining part, by its decomposition, affording oxygen to the gluten, which in this way is changed, says Liebig, (Op. cit., p. 239,) into yeast. If we adopt this explanation, the presence of sugar only becomes necessary in the formation of yeast, by imparting oxygen: but there are some objections to this view, which would almost reduce fermentation to an action of ordinary inorganic eliemistry, Liebig's express object. These objections are.

1st. From experiments that I have lately made (with a different object in view indeed.) it was obvious that when polished iron, or bright iron filings, was put into the thickest syrup, or into hot fused sugar, no oxidation whatever took place. So far then as iron is concerned, a solution of syrup is not so much an oxidising agent as common water.

2ndly. Why, if oxidation only, be the cause

yeast is merely left exposed to the atmosphere? * Liebig says, "in different parts of the work under consideration, that gluten has a strong affinity for oxygen." And, indeed, the fact seems, that when a vegetable or animal juice is exposed to the air, oxygen (as in all cases of putrefaction) is absorbed: and although the product in that case is a fluid or mass that will excite fermentation, for Liebig says expressly (p. 259) that perhaps all matters (see his long list), animal or vegetable themselves in a state of putrefaction, t have this effeet, still this product would not, I suspect, be

As, then, the production of carbonic acid and alcohol from sugar can be effected by no other known means than the presence of yeast (Graham's Elements, p. 196), so, likewise, in all probability, that can be formed by no other known means than by the action of itself on sugar and gluten in the same solution.

This view of the subject, will make the formation of yeast very similar to the reproduction of life in the highest order of animals; and Cazniard de la Tour's paper in the Annales de Chimie, is in support of the action arising from the reproduction of vegetable germs; an opinion, indeed, opposed by Liebig, but, as appears, in my humble opinion, on insufficient grounds. But for the sake of argument, let us take the opposite view of the subject (for Liebig does not seem to give a very clear opinion on this case), and conceive that when a piece of putrid vegetable or animal matter excites fermentation in a mixture of sugar and gluten, yeast is produced, just as when yeast itself excites the action; then let us also conceive that yeast may sometimes be produced when a mixture of vegetable juice (gluten), t and sugar is exposed to the air (simply to enable it to absorb oxygen), no yeast being added, and what would be our conclusions? Why, if yeast could be produced under such circumstances, the formation of that substance, doubtless, could not well be likened to the generation of a seed from a seed; to the production of life, as among the great mass of plants and animals; to the production of life from its like. But, still, under such eirenmstances it would be

* At p. 379, when comparing the action of fer-mentation with contagion, Liebig says, "The fer-ment acts on the sugar, and occasions in it a change, in which the gluten takes no part; but by the influence of the air, this undergoes an alteration of form and composition, in consequence of which the ferment reappears again with all its properties." This statement seems, in some degree, incompatible with that at pages 288, 289, already quoted, but perhaps not entirely so; for both agree as to gluten being changed into ferment, by absorbing oxygen. However, in p. 288, it appears that this change may take place, and generally does take place, without the access of air; and in such case Liebig supposes that the oxygen necessary is derived from the sugar.

f Colin, however, seems to have made this discovery, or other authors previous to Liebig. There are fewer new facts in Liebig's essay than might be supposed; its great merit consists in an attempt to generalise well-known facts. I somewhat regret that such an attempt should be unsuccessful; since it is setting so good an example to the chemical world in general, who neg-

teet too much the classification of well-known facts,

‡ Ferment or yeast would only be produced under such eireumstances in ease sugar were present. Now, as sugar is present in vegetable juice, and also in an infusion of malt, ferment or yeast can, in all probability, be generated when such matters are exposed to the air, inasmuch as a decomposing or patrid solution will be produced; attack of epilepsy. This fact may lead you to a long the reproduction of the yeast, is it not reproduced when a solution of gluten containing denical with yeast in properties.

2ndly. Why, if oxidation only, be the cause of vegetable juice produces forment under such circumstances, and Liebig says (p. 288) that seems identical with yeast in properties.

similar, if not identical, to the action of equivocal generation among animalcules, or nutrition in the animal and vegetable kingdoms. For the production of animalcules (the infusoria) all that seems necessary is, that the conditions of putrefaction (i.e. an organic solution at a certain temperature in contact with air) be present; the air in this case sceming in some degree to supply the place of a previous living monad, and exciting to action by the absorption of its oxygen; but if yeast were formed, when sugar was put into the organic solution in question, instead of, or in common with, infusoria, the production is only that of the lowest vegetable, instead of the lowest animal, life. The analogous formation of infusoria (an organic solution being absolutely necessary for the formation of these) would make the action still come under the class, if we may so speak, rather of vital or organic, than common, chemical actions, particularly as the yeast once formed has, like the infusoria, a power of propagating it's like. This is the consideration that would make the formation of a yeast, under any circumstances, rather like an organic or a vital, than merely a chemical, action. In all probability, the products in organic bodies are the result of the operation of ordinary chemical affinity, modified only by the circumstances in which the molecules are placed by the operation of vital action: but there is this difference in vital operations, viz. that many kinds of matter, different in appearance, taken into the living body, are all converted into the same substance, or go towards forming a whole, similar to the one in which they are received. The only point in which these different substances must resemble each other is, that they must consist of organic matter: just so, if we suppose yeast may be formed from various decomposing organic products, supposing that may be the case, it is still certain that none but organic matters will do for such transformation; but if yeast can reproduce itself from such matters, such matters will be similar to food, as taken by living beings, and the production of yeast will resemble the act of nutrition.

VALUE OF QUINING IN TYPHUS .- A commission appointed to examine into the correctness of a memoir addressed by Broqua to the French Academy of Medicine, reports that some of the cases cited in the memoir are not proved to have been veritably typhoid, and that no proof is adduced of the quinine administered having been the means of cure. The report remarks, that " one interesting fact confirmed by Sig. Broqua's memoir is the general harmlessness of the sulphate of quinine in full doses. In the discussion that followed its reading, M. Piorry stated, that in typhus fever, with engorgement of the spleen, he had seen quinine prove serviceable, which had not been the case when the fever was unaccompanied with splenic leison. M. Martin Solon, who had employed the remedy under the personal inspection of Sig. Broqua at the Itopital Beaujon, admitted that in cases in which the fever assumed a remittent type, quinine was useful, but that remittent typhus was rare,-at least at Paris. Much doubt was expressed by several members of the academy as to the innocuity of large doses of quinia or its sulphate.

Solution of Aconite in Rheemaric Apprecians,-M. Busse recommends a mixture of 4 grammes of extract of aconite with 30 geammes of antimonial wine. Thirty or forty drops to be taken every two hours. In one drops to be taken every two hours. In one patient M. Busse administered as much as two must cease. The "Medical Times" has a higher

ducing narcotism. M. Busse states this medicine to be of great efficacy in chronic rheumatic pains, as also in pains in the teeth originating from the same cause.

TO CORRESPONDENTS.

We tender our acknowledgments to our talented contemporary, the "Shropshire Conservative," for his flattering notice of our work.

H. W. Dewhurst, Esq.—We are obliged to decline

this gentleman's liberal offers of literary aid.

Dip.-The two numbers named will be sent; the cost will be 8d. On Dr. Sinclair's Joint Stock Medical Institution at Hulme, we are loathe to express our opinion. We are told that the president, or medical officer is a medical reformer, and the author of a pamphlet on medical reform. But if the members of n Medical Reform Association can club together to get a journal at the mere expence of paper and stamps, (that is, without profit to any body but themselves) is it wonderful that such men's patients should join together to get medical attendance a hargain? spirit of avaries, the philosophic motor principle, intense selfishness-the characteristic of our age-is to acquire the commodities we need, at the least possible cost to ourselves, without troubling ourselves very much as to the results on those producing them. affluent have carried out this policy in their Clubs, Art Unions, and Joint Stock Companies; and it may be expected that the poor will follow in their wake.

A. Z .- It is illegal in a wholesale druggist to supply spirits of wine to his customers, and equally so in a retail druggist, except for medical purposes.

A. II .- Our Almanae was published in December, and as, from the very large sale we received for it, we were compelled to have it stereotyped, our supply is ine chanstible. Our Correspondent should order it through another bookseller.

Mr. Sale .- The Medical Charities' Bill has not bassed through Parliament and there is an opinion abroad in well informed circles, that it is not very likety to pass this session. The inspectors would of course not be appointed till the act received the royal signature. We see that it is not to be considered lill the 26th of April.

A Visit to a Magnetic Patient .- This narrative (from the " Glasgow Argus") has been sent to us. It wants all that such relations should never wantnames, places, times. What nonsense to write about zeal for seience and truth, and be ashamed to give one's name to statements which are utterly uscless to either truth or science, without all the weight which the publication of responsible authority can give them?

Diamond Cement. S. W. H. sends us the following recipe. It is proof, he says, against boiling water after being allowed to stand a week.

> R Gum Mastich 5ij. S. V. R. 3188. Solve cum calore. B Isinglass Isinglass 5ij. Aq. bullient. 5iss. misee omnia.

The article intended to be mended must be made warm when the cement is used, it needs to be placed in boiling water to dissolve.

G. H.-The inhaling instrument enquired about is, we understand, one of the simplest construction. The smaller of the two unequal ends is the one placed in the month. Sir Charles Scudamore uses a similar instrument for his iodine inhalations. As the object, we presume, is only to get much air into the lungs, not much complication would seem necessary. He are not aware of any professed vendor.

Mr. Richard King has our thanks both for performances and promises.

Mr. Cronin sends us a letter, intimating that if Mr. Thornton plagiarised Mr. Yearsley, Mr. Yearsley had first plagiarised Mr. Cronin. The three anrists are by the ears, and how the squabble will terminate, who shall predict? Mr. Cronin's charges it must be owned, are for more general than those made by Mr. Vearsley against Mr. Thornton.— He confines himself to the endeavour of shewing that Mr. Yearsley's viology and treatment are similar to those propounded grammes and a half of the extract, without pro- office to serve than being a mere Aurist's Pillory.

L. S .- It is confidently expected that Sir James Graham's Medicul Bill will be brought in soon, but there is less certitude felt than at the beginning of the session that he will succeed this year in carrying it. There is no probability that it will contain an enactment allowing surgeons to dispense their own medicines. Our Correspondent's case is a hardship, but we must always have such till there be some uniformity established as to the course of proceedings which shall make (what we may call) a full medical man in every part of the empire.

The Phrenological Society.-We have been favoured with letters from Dr. Elliotson and Mr. Atkinson, which satisfy us that the notes furnished of the proceedings at the last meeting we noticed are not in many particulars perfectly accurate. In future our own reporter will attend the meetings.

Mr. J. Jones.—"The Philosophy of Health' is fuished. Dr. Arnott's "Elements of Physic" remains, alas! still uncompleted. We regret, with our correspondent, that there are so many pledges remaining unfulfilled by medical authors who have undertaken the publication of large works in parts; but our censures, if we were to utter any, could not but be meck weak the delinquents are headed by an Arnott and a Copeland. Who would believe that either of these could be in wilful fault?

A .- The paper by Mr. Foote on the Improvements in Pharmacy is not an abstract, but was written vapressly for the " Medical Times.

C. H. will find the rules required for the East Indian Medical Service laid down in our Student's number of October 1st, 1842.

Fair Play .- We should think £600 a fair premium under the circumstances.

THE MEDICAL TIMES.

SATURDAY, MARCH 18, 1843.

Primum nam inquiram quid sit furere - hoc si erit in te Solo, nil verbt, perc is quin fortiter, addam.

THOUGH subscribing fully to the justice of the jury's verdiet in the case of M'Naughten, we yet-strange as it may appear to the Times, and the many others who have been eagerly crying out for blood-believe in what has been called the sanguinary principle that punishments are justifiable only on the ground of prevention, and should rise or fall in amount according to the rule required by the good of society. While retributary punishment is no prerogative of ours, the absolute power of preventive punishment is. While the charter of our power over each other allows of not even a momentary increase of human misery, save with the clear purpose of humanity's greater amelioration, it allows us that in full plenitude. In punishment, the salus populi, the bonum publicum, is at once the lex suprema and the lex univa.

If it be said that-this principle admitted -we must discard the maxim which connects responsibility with mental sanity, we briefly answer, that punishments undeserved, or punishment out of all proportion with the offences, are as bad for society as they are unjust to the individual. They exasperate the circle or class in which the sufferer moves-shock the sense of equity -throw discredit on the law-and, rousing all men's sensibilities to revolt, are more apt to encourage men to wrong, than to wean them from it. The teachings of Justice, which is indeed but another name for the Common Sense of mankind, are thus in perfect harmony with the requisitions of

society.

Now, the broad maxim we would lay down on a man's legal responsibility is, that it should hold in law, as it does in human equity, a precise proportion with the sanity of the mind on which it depends. We need not say, in discussing the nature of insanity, that it is no metaphysical malady. We know that the spiritual essence has a physical residence, and receives its knowledge, and exercises its behests, through physical agents. mind may not be the brain, more than the instrument is the musician, or the type in which Milton's works are printed, are Milton's ethereal thoughts-but the mind is still wholly and entirely dependent on the brain. Derangement, disease, disorganization of the substance of the brain, are evils, then, that necessitate greater or less aberrations of mind.

The evil may be in various degrees of magnitude. The patient may be sensible of the aberrations. There will then be no lesion of that part of the brain on which the mind depends for forming a just estimate of the actions immediately under review. There may be no consciousness of the abcrration - in which case, cæteris paribus, there is a larger extent of physical malady. There may be again, a limitation of the malady to that portion of the brain on which the mind is dependent in reference to its propensities; or to that other portion through which it perceives, compares, remembers, judges-or to both. If the disease extends to all, we have lunatics in the most desperate of stages: if to the former only, we have men in various stages of passionate irregularities, accordingly as their intellectual powers are strong or weak-or their past training has been good or bad. If the disease, instead of attacking the moral feelings, has triumphed over the part of the brain dedicated to intellectual labours, we have hallucinations, delusions, phantasies, varying with the especial seat of the malady, as well, probably, as with the past character and habits of the patient. Irresposibility, therefore, is rarely total. There are few even confirmed lunatics who, for a certain class of actions, are not as responsible as men in sanity. This man may, by one of those obliquities of mental action by which a fragment of memory or sensation is turned into a solid conviction, mistake his own identity, but his notions of meum and tuum are healthy as ever: nay, on every thing unconnected with-it may be-one point of memory, his judgment and feelings may be as sane as his soundest neighbour's. This suggests considerations as to the punishment of lunatics, which we cannot dwell on, but which our legislators might turn to account, - and, on the other hand, shews how foolish is the policy which, considering monomania as a pretty fiction of modern times, holds it not to be a true insanity, nor one which exempts the actor from responsibility on the special matters bility. that come under its range. Monomania is far from an uncommon phase of insanity; ture will exclude for another week one or two and no reason can be mentioned why articles we are engaged to give.

monomaniacs should be visited with punishment for the direct consequences of their mania, which would not equally apply to all other madmen for acts immediately the result of a wider lunacy. If reason, with the power over one's volitions, be admitted the source of all responsibility, by what sophistry shall it be argued that M'Naughten should have been punished for his recent act? We are told that motive and intention are the things that give an action its character. - and that the fixed design frustrated, and the fixed design carried out, only differ in there being a more consistent and persevering course of mischievous intention shewn in the one than in the other If fixed intention, if mischievous design, then, be the test of guilt, where shall we look for either in M'Naughten? If any one believe that a fixed delusion, sincere, strong, invincible, held possession of his mind-and few surely can doubt that -what difference can be point out between M'Naughten's act, and an assassination committed in a dream? The design of either assassin would be equally under the control of reason.

It appears to us no proof of wisdom to assert, with Sir William Follett, and some other lawyers, that the incriminated act of a supposed monomaniae should not be narrowly scrutinized as evidence for or against the insanity of the accused. single act may contain a mass of evidence proving madness, and there is no reason why the act first offering such proof should be the very one accused. act happen to offer evidence of long premeditation, cunning or unnecessary cruelty, the circumstances are duly enlarged on, as aggravating the crime. Is there any reason why circumstances proving a want of intention (and there must always be such a want, where there is no reasoning intellect) should not as fully be urged in palliation for the accused? We confess we can see

The Times, in rather an ingenious spirit, affirms that the mental delusions of M'Naughten offer no extenuation of his guilt. If the supposed injuries he complains of, were real, and he had avenged them in the way he is accused of-the law, it argues, would have held him guilty of murder; a fortiori, therefore, when the provocation was merely imaginary. Now, we have here a clear petitio principii. If M'Naughten be not mad, he certainly deserved to have suffered for his act as much (we will not say more) if his complaints were fictitious, as if they were real. But M'Naughten, we affirm, was mad; and the extraordinary delusion he laboured under, affords, with other evidence, proof of the assertion. But the argument earries on its face its own answer. In leaving it, we must content ourselves in expressing our admiration of the journal's powers, which can derive, from an agent's hallucinations, proof of increased responsi-

We regret that the length of Mr. Guthrie's lec-

PENCILLINGS OF LIVING MEDICAL MEN.

South, Solly, M'Murdo, and Travers, Jun. THE first in this list is one of the surgeons, and the other three are the assistant surgeons, of St. Thomas's Hospital.

John Flint South is a pale, thin, delicate man, about 40 years of age, with a very prominent long nose, long face, and a most methodistical mode of wearing his hair. His manner is unpresuming and retiring. He walks along with his long neck outstretched, his eyes fixed on the ground, and his head covered with an old fashioned hat, giving him a very strange and eccentric appearance. looks like a great nugainly girl in male attire. He is the son of a respectable chemist, many years resident in the Borough; and is brother of Sir James South, Astronomer Royal, about whom there is so much diversity of opinion:-

"Some deem him wondrous wise, "And some believe him mad,"

He was elected on the council of the College of Surgeons, in 1841. He is a very studions, in-dustrious man. He resided for some time in St. Helen's Place, in patient expectation of professional employment, to which his connection with the hospital, and his own acquirements gave him a natural claim. It has not, however, been realized. Possessing property, and suffering under occasionally severe indisposition, he avoids the bustle and inquietude of professional rivalry. He prefers the cool breezy shade of private life, as much we believe from inclination, as from an inherent, modest, reserve of disposition. He lives at Blackheath, and amuses himself in his Tusculan retreat, by scientific research. He is passionately fond of comparative anatomy, and has, and is printing several interesting articles in the Encyclopædia Metropolitana, on the subject of sharks. With Mr. South, as with many others, failure is their own fault; it is a question of fear. They shrink from grappling with the realities of life. They want the persevering courage to drag on, amid difficulties and trials, or are deficient of that worldly tact, which is so practised at present. Mr. South was never under the influence of that stern stimulant, necessity, that incites so powerfully to exertion. I never fought a good battle, said a celebrated prize fighter, after I had a fifty pound note in my pocket. This feeling may explain the event of success of some very learned and scientific men. Commence your profession without a shilling, is a very inconvenient and disagreeable prescription. Yet to be poor to perfection, is oftener a surer road to fortune, than either wealth or connection. It holds good in law. Old Eldon once truly remarked, "all our Chancellors come from the garrets.

In 1831, Mr. South translated Dr. Otto's Compendium of Human and Comparative Pathological Anatomy, with notes and references. It is a simple and literal translation, and highly creditable to his research and industry. The introduc-tion notices all the authors who have written on this subject, from Antonio Beneveni. The author considers all deviation from the healthy organic condition of animal bodies as either the disturbance of their normal nutritive activity, in quantity or quality (Liebig's present theory), or the mechanical separation of the natural connexion of their parts; whence, again, are necessarily produced changes of the nutritive activity. He considers the chemical peculiarities naturally to belong to Pathological Chemistry, on which account Pathological Anatomy excludes generally from its sphere the animal fluids, and only concerns itself incidentally with the more important fluids, in reference to their quantity, color, and consistence. The vices of animal organization are divided into congenital and acquired.

Second section, into vices relating to number, deficiency, and multiplication of parts; and the others, to those consecutive to the vices of size, &c.

He subsequently edited St. Thomas's Reports, in one volume, of which the following sensible observations occur:-" A detailed account of eases occurring in our Hospitals, to which several physicians and surgeons are attached, must be considered valuable, as affecting a comparison of different modes of practice, and their results." He adds

It is, therefore, matter of surprise, that no such cases have hitherto been published by any of the large Hospitals with which Medical Schools have been connected—but have been left to the periodicals, and by them selected more with reference to rarity than general utility, to the neglect of a legitimate and ample field for professional improvement.

The premises so judiciously advanced in these preliminary remarks were never carried out. The conception was better than the execution. The cases were selected "not wisely." There was no interest in them. They were too formally and circumstantially detailed. They were such simple and familiar cases that the reader felt it was a waste of paper and of observation to collect, and of time and attention to peruse. There were no scientific deductions to compensate for such simple and frivolous premises, and needless illustration. There were no statistical documents to give value and importance to its pages, -no grand generalization, -no novelty, nor improved modes of practice-no comprehensive views, to repay the purchase or the expectations: and the work went down the Acherontic stream, and is known only as a record of the failure, amid such ample materials, of a very hard-working, well-informed, and in every way respectable and intelligent young

. In 1839, he brought before the Medico-Chirurgival Society a case of fracture of the coracoid process, with partial dislocation of humerus forwards, and fracture of the acromeon process of the claviele.

He has published a third edition of his work on the Bones, in which he has introduced great improvements, and many valuable engravings. The students have atfixed the name of Bony South to him, either from having written this work, or his illustrating the osseous system so perfectly in his own person. It is a didactic work, and facilitates and simplifies the study of this structure. It is not much sought after, nor read. Some say that the energy of his mind is not of the first order. But all admit that the compass of his knowledge is very extensive, and that his activity and perseverance deserve our respect. He is attentive to his Hospital duties, kind, affable, and instructive slow, but sure, as an operator. In general politics he is of the Conservative tendency. Active earnest, and enthusiastic, as a medical reformer-Active. deeply penetrated with the conviction of the evils and abuses of the present system, and sincerely solicitous of their removal. In private life, pleasing and prepossessing; full of a dry quaint humour, and much estemed and highly valued by his associates. He has all the elements that compose a good consulting surgeon, and ought to be encouraged by the general practitioners.

SAMUEL SOLLY, F. R. S. Lecturer on Anatomy and Physiology, is a dapper little man, but of high fancy, as Sterne said of Hammond Shandy. Dark twinkling eyes, and visage chubby, with the rose of health crimsoning his cheek, in despite of the midnight oil, and toil, and study. His round pleasing face, the nattiness of his attire, the convolutions of his cravat, his profound acquaintance with the art of the toilet, manifest a very landable desire to stand well in the eyes of the fair sex, as well as in science. He is about 10 years of age, but looks younger. He is a mixture of the sanguine and bilious temperament. His head is fairly divided. The animal propensities are not forgotten, over which the moral sentiments and the intellectual certainly predominate. The observing or perceptive organs are large. He is evidently of the impulsive class of medical men. In 1835, he published a letter in one of the periodicals, on the the advantages of drawing to the medical student. In 1836, he published his work on the Human Brain, its Structure, Configuration, Development, and Physiology, illustrated by references to the nervous system in the lower order of animals

In his introduction be remarks very justly, that according to the plan generally pursued, in treating the anatomy of the brain, in systematic works of the present day, all the information conveyed

names applied to parts, without reference to their structure, their function, or even their analogies in the nervous system of the lower order of animals. Such a barren prospect as a list of names, holds out but little to attract the most zealous among students; while the dryness of unconnected detail, and the obstacles to clear conception engendered by the absence of every thing like arrangement, almost constantly deter him from attempting to learn more than is required to prepare him for examination for the diploma.

It is unfortunate that the old method of slicing should be followed, a method most unphilosophical in its conception, and totally inadequate to impart any real information in regard to the struc-

Reil, Gall, Vie d' Azyr, Seffes, Cuvier, and others, by commencing with the dissection of the spinal chord, and tracing it upwards, were enabled o throw great light upon this interesting branch of physiology, and to prove that the chain is perfect, and that such differences as do occur, simply consist in the abstraction of parts, and the loss of those powers which have been proved to be dependent on them.

By pursuing this course, we shall be rewarded by finding that the enkephalon, this apparently most complicated organ in the human body, is but a gradual development from an extremely simple fundamental type on one uniform and harmonious plan,-that the seeming complexity of the cerebrospinal axis in man really arises from the great concentration, as opposed to the extreme diffusion of its component parts in the lower order of animals; for in no particular are the higher orders more strikingly distinguished from the lower than in the concentration of functions within circumscribed spaces.

"Let honour be given where honour is due." He may be well proud of this production; it is equally excellent in conception and execution, The demonstrative principle is beautifully and philosophically exhibited in the progressive ascent of the series by the successive additions of new parts, and of increased and corresponding func-

The language is simple, scientific, and perspicuous; his descriptions are lucid, accurate, finished, and complete. His reference to the opinious of Herschel shows that his mind is deeply imbued, and that he ambitioned not "unsuccessfully" to imitate the excellence and purity of the style in Herschel's noble work—his Discourse on the study of natural philosophy.

In 1839 he read a paper on a case of dry gau-grone in a boy, before the Medico-Chirurgical Society

In 1841 he was elected assistant-surgeon. The same year he wrote some remarks in the Gazette on the Pathology of the Nervons System, in which he tries to refute the opinion that disease of the cerebro-spinal axis is not discernible after death. He imputes it to the want of properly noticing the colour of the cineritious neurine this he did not evidence as clearly as he might.

We once heard him deliver a lecture before the Royal Institution. He very respectably acquitted himself. His language apposite; his manner neat and appropriate; his drawings and diagrams good, and carefully executed; his reasoning succint and clear. He was not cloquent, but he was successful in communicating information, and in confirming the remark of Horace .--

That if the mind with clear conceptions glow, The willing words in just expression flow.

He said he considered a nerve to be a chord proceeding from some sensitive or motive surface to a medullary centre to which it conveyed impressions, which were converted into sensations, and whence was reconveyed the energy which produced voluntary and involuntary motions. In the human subject, the olfactory nerve, which ministers to a sense not highly developed in man, terminates in an eval or pyriform bulb of ciniritious matter. which is joined by a long commissure to the cerebral mass. In other animals, as the horse, in which the sense of smell is much more acute, this thalamus grows to an extraordinary size, and in some animals it is altogether deficient. He proved amounts to little more than a vain catalogue of in the most satisfactory manner, that in the most non-entities presidents, hypocrites, imbeciles, sy-

simple as well as in the most complicated system, two conditions of nervous matter alone existed, the fibrous and pulpy tissues. He made it popularly and scientifically interesting.
In 1842, he published a short article on some of

the functions of the organs of the circulation, independent of nutrition, which went to establish that blood, independent of its vital properties. performed a most important part in the economy as a mere mechanical agent. He is a very intelligent hard-working young man. He will never, as a surgeon, rival his predecessors, Cheselden or Cline; but it is very likely that he will afford an additional instance that success is the result of unceasing and well directed exertion, and that the road to eminence, though steep and painful, is to be travelled over by perseverance and industry, and that the aphorism is equally true in medicine

as in religion, no cross, no crown.

He is very diligent in instructing all under his care, and very well qualified to give instruction. As a professor, he is proud without arrogance, and dignified without effort. His well managed familiarity and desire to be useful, make him respected

and esteemed by his class.

McMurpo is the son of a rich wholesale chemist in the city. By interest, wealth, and apprenticeship—like Solly—he procured his appointment as assistant surgeon. He has a dull large Dutch countenance-such a face as you could easily cut in a Cheshire cheese, without animation or intelligence; but an astute cunning Scotch expression that it would be very difficult for the knife to impart. He wears a very spicy wig, with rich flowing and luxurious ringlets: cultivated with great care and tenderness, and spread far over his cheek. Time having rather prematurely given them a very venerable complexion, and "Wisdom's silver" being unacceptable to the other sex, his knowledge (not confined to surgery) has led him to have recourse to chemistry to dye them dark. By such ingenious devices he has contrived to claborate a rather agreeable face, He has graduated in the school of Sir Pertinax Mae Sycophant, and pays the most criental homage to his patron, Mr. Green, whose opinion is with him oracular and infallible. He goes round the wards frequently for him. The one goes round with the pupils as if they were performing a gallopade; the other is often tedious from the time consumed and the monotony of his observations. L'un va en tortue, l'outre court la poste, the latter dropping here and there a practical hint, a world of knowledge in a word-a pearl that the student values as it deserves. In Mr. M'Murdo's demeanour there is a good nature or kindliness of manner that makes itself telt by the byestander, if it were not spoiled by a hybrid mixture of pride, or pomp and politeness that it is difficult to describe or understand, and which makes you suspect its sincerity. He is affable to the students, and anxious to communicate instruction: or rather, to persuade them that he knows something. One moment he is lab mring severely to perpetrate some witticism, and going to the verge of coarse familiarity in the endeavour. All of a sudden be stops, and addressing some pupil with an emphatic sit, that the others may not forget the vast disparity in their respective stations. Pope, in his prose, says, that true wit may be defined a justness of thought and a facility of expression, or, in the midvives' phrase, a quick conception with an easy delivery. Our pencilled friend, if he thinks of Pope, will save us the pangs, and himself the pains of his witty perpetrations. His genins is evidently too ponderous for a joke. Canning surcastically called Hobbiouse Lord Byron's man Friday; M'Murdo is in the a joke. same relation to Green. There are many envious of his situation, who assert that if a man be insinuating but worthless, stupid but sly, and have the malleability of a leaden mind to bow and eringe and be as ductile as his patrons please, and serve apprenticeship and pay the premium, there is no office, however important, that he may not reach. The metamorphosis of Mr. M'Murdo into an hospital surgeon would appear marvellous in any other part of the world; but where you have

cophants, maw-worms, and renegades, councillors and examiners-while men of high order, of intellect, great acquirements and practical merits are excluded—the wonder ceases.

In other countries a man must obtain the confidence of the public before he can challenge the suffrage of the profession; he must seeme eminence before he aspires to superiority. No man could be in his situation unless he had fought and conquered his way to high distinction by the exercise of great qualities, by putient study, and unwearied industry.

We have sought in vain in the medical, chirurgical, and philosophical transactions, in the periodicals, weekly, monthly, quarterly, and annual, for Mr. M'Murdo's opinions on scientific subjects. The only reference to his name is the notification of his appointment to St. Thomas's, In Paris, the publication of the candidates are put in as evidence and claim to professional capability. N'importe. Interest and money are the most potent and talismanic of agents in London. The lives or happiness of the poor-but we must stop-we must not be too severe, we find no fault with the individual, we war with the system,

Admonere volumns, non 'mordere-prodesse non lædere, consulere scientiæ non ufficere,

McMurdo thinks that there is no reputation to be gained from writing new-a-days, and we agree with him. The encocthes scribendi is rife. books that are published now-a-days are professional advertisements. You can have histories of expeditions, pleas of insanity, diseases of the skin, by paying for it, works without one original idea, manufactured and compiled by librarians and eminent surgeons, who never had any practice. The only trouble is to put their name upon the title-page. They make their books upon the same plan the cuckoos build their nests. We have long elaborate essays upon complicated diseases, which the author never saw, and we have books which the anthor never read, translated out of a language which he does not understand. He purchases by the quantity, and some disagreeable critic in-forms that it is Mr. So and So's work, with Dr. So and So's name, prefixed to it. This is double felony, the author and the purchaser are robbed, and the reader imposed upon. We feel the subject ginning to expand. We shall shortly devote an article to it, and eudeavour to pencil the master manufacturers, from Willis down to Winslow,

Mr. McMurdo, (why is it the Mr. seems misplaced to this name?) McMurdo then, like Chaucer's Monk, has three or four scraps of Latin in his mouth, with which he is trying to pass off as a scholar. Also a few pet phrases, such as "This is a most gratifying case, gentlemen, very. He came in in a very bad state. He is now better, much better, gentlemen:" to which we once heard the following rejoinder.

" The devil a bit, your honour, nor the first day I came in, nor ever will be as long as I stay here, and that's the God's truth now." He relates an anecdote of a brewer's drayman having acknowledged to drink daily sixteen gallons of porter. It is told to introduce Credat Judaus Apella, non Ego. In his treatment he is judicious and unexceptionable. He follows implicitly the directions of his seniors. He is bland and humane to the poor, courteous to his equals, and kind to the pupils. His treatment of the poor is the heroico-generous.

We heard him order to one patient six pints of porter, four glasses of wine, one of brandy; one pound of chops, two eggs, milk, and beef-tea, aday. The Poor Law Commissioners, and Dr. Truman, and those who have written on dietetics, would derive benefit from a visit to St. Thomas's. must say, that this generous fare seems to have the best effects. He matriculated in Trinity College, and married a very elegant and accomplished brish lady. He is the surgeon, or rather medical officer to Newgate, where he is much respected.

Benjamin Travers, jun., is a young, well-looking, flaven-haired man, modest, and unacoming in manner; the son of one of the most accomplished the solutions we have. We exsurgeons and original thinkers we have. peet something from him. He published the history of a case of trachcotomy in 1840. He is fumales.—Benzoin generally forms the chief

biding his time, and we have reason to think he will not shame his sire. But our limits have been exhausted, and we are prevented doing justice to PROBE.

INGREDIENTS OF STAMPED AND PATENT MEDICINES.

(According to Dr. Paris and other Anthorities.)

Chamomile Drops.—The nostrum sold under this name is a spirit flavoured with the essential oil of Chamomile. It cannot possess the bitter tonic of the flowers.

The Everlusting Pill of the ancients consisted of metallic Antimony, which being slightly soluble in the gastrie juice, was supposed to exert the property of purging as often as it was swallowed. This was economy in right earnest, for a single pill would serve a whole family during their lives, and might be transmitted as an heir-loom to their posterity. We have heard, says Dr. Paris, of a lady, who having swallowed one of these pills, became seriously alarmed at its not passing; upon sending, however, for her physician, he consoled her with the assurance that it had already passed through a hundred patients with the best effect.

Permanent Ink for marking Linen.-This preparation is a solution of nitrate of silver, thickened with sap green, or cochineal. The preparing liquid, or pounce liquid, as it is technically called, with which the linen to be marked is previously wetted, is a solution of soda, boiled with gum or some animal mucilage. It is a curious circumstance, that if potass be used for this purpose, the marking ink will run.

Plunkett's Ointment consists of arsenious acid, sulplinr, and the powdered flowers of the Ranunculus Flammula, and Cotula Feetida, levigated and made into a paste with the white of an egg, and applied, on a piece of pig's bladder, to the surface of the cancer.

Pate Arsenicale.-This favourite remedy of the French surgeons consists of 70 parts of cinnabar, 22 of sanguis draconis, and 8 of arsenious acid, made into paste with saliva, at the time of applying it. This combination, observes a periodical writer, is similar, with the exception of the ashes of old shoes, to that recommended by Father Cosmo, under the name of "Pulvis Auti-carcinomatosa,"

Davidson's Remedy for Canver, arsenious acid, and powdered hemlock.

Singleton's Eye Salve, or Golden Ointment. Under this name is sold a preparation which consists of sulphuret of arsenic (orpiment) with lard, or spermaceti ointment. The Unguentum Hydrargyri Nitrico Oxydi of the London College, is also sold under the same title. The latter, Dr. Paris, believes, is that which is more usually sold under the name of the Golden Ointment; Mr. Clarke has stated, in the Glasgow Chronicle, that it is composed of a drachin of red precipitate and seven drachins of butter.

Delevoir's Poudre Subtil, "for removing superfluous hair in less than ten minutes .-This fashionable depilatory appears, upon examination, to consist of Quick-lime and Sulphuret of Arsenic, with some vegetable powder. It is, however, so unequally mixed, that in submitting it to analysis, no two por-tions afforded the same results. The composition is incapable of fulfilling the intention for which it is so confidently vended.

Tolu Lozenges .- Sugar eight oz., Cream of Tartar one oz., Starch two drachms, Tinet. Toluiferæ Balsami E., one fluid drachm, mucilage of Gum Tragaeanth q. s.

Fumigating Pastiles. Trochisci seu Candela

ingredient in these compositions, to which may be added any variety of odoriferons substances; the following formula may be offered as a specimen:-

R Benzoin 5j. Cascarillae 388.

Myrrh ∋j.

Olei nuc. moschat. ol. Caryophyll, ää git,x. Potassa nitratis 588.

Carb. ligni 3 vj.

Mucilag, gum. Trag. q. s.

Virgin's Milk .- A spirituous solution of Benzoin mixed with about twenty parts of rose water, forms a cosmetic long known by this name. Under the same title also a very different preparation is sold, vid. Liquor Plumbi sub acctatis.

Friar's Balsam, Wade's Drops, Jesuits' Drops.-These preparations are nothing more than the Tinctura Benzoni composita.

Pectoral Balsum of Honey is merely the Tineture of Benzoin, or that of Tolu.

Essence of Coltstoot .- This dangerous preparation consists of equal parts of the Balsam of Tolu, and the compound Tincture of Benzoin, to which is added double the quantity of rectified Spirit of Wine.

The Specific of Herrenschwand, which formerly excited so much interest in Germany, consisted of ten grains of Camboge with twenty of sub-Carbonate of Potass; although it is said, that on its being analyzed by order of Elizabeth of Russia, there were also found in it both Mercury and Arsenic.—Camboge is also the

basis of the Specific of Clossius,
Golden Spirit of Severy Grass.—This is merely a solution of Camboge in the Spir. Ar-

moraciæ comp.

Towers's Solution of Camphor .- Under this title, a strong aqueous solution of Camphor was sold in London, which was supposed to be indebted for its strength to the agency of carbonie acid.

An Odontalgic Remedy, in great repute, con sists of a solution of camphor in oil of turpentine; a fluid onnce of which will dissolve two

Rymer's Cardiac Tineture ..- It is an infusion of Capsicum, Camphor, Cardamom Seeds, Rhubarb, Aloes, and Castor in Proof Spirit, with a very small quantity of Sulphuric Acid.

Lardner's Prepared Charcoal consists of eretaceons powder, or chalk finely powdered, rendered grey by the addition of Charcoal, or Ivory Black.

Concentrated Solution of Charcoal.-A preparation is sold under this absurd name for cleaning the teeth, and is nothing more than a Tineture of Catechu. The name was probably suggested by the experiments of Mr. Hatchett, who succeeded in producing artificial tannin by the action of Nitric acid upon Charcoal.

Bateman's Pectoral Drops consist principally of the Tincture of Castor, with portions of camphor and opium, flavoured by anise seeds,

and coloured by cochineal.

Kirkland's Neutral Cerate is formed by melting together 5viij, of Lead Plaster with f5iv. of olive oil, into which are to be stirred Ziv. of prepared chalk; when the mixture is suffi-ciently cooled f5iv. of acetic acid, and 3iij. of pulverized Acetate of Lead are to be added, and the whole is to be stirred until nearly eold.

Murshall's Cerate.—R Palm. Oil Zv., Calomel 5i., Acetate of Lead 5ss. Nitrate of Mercury žij.

Cold Cream (Ceratum Galeni.)—Ol. Amygdal. Ibj., Cera alb. Šiv.; melt, pour into a warm mortar, and add, gradually, Aq. Ros. oj. It should be very light and white.

Essential Salt of Bark .- The public should

know that the preparation sold under this empirical title, is merely an extract prepared by macerating the bruised substance of bark in cold water, and submitting the infusion to a very slow evaporation.

Eun Medicinale de Husson - After various attempts to discover the active ingredient of this Parisian remedy, it is at length determined to be the colchieum autumnale, which several ancient authors, under the name of hermodactyllus, have recommended in the cure of gout The following is the receipt for preparing this medicine. Take two ounces of the root of colchieum, cut it into slices, macerate it in four fluid ounces of Spanish white wine, and filter. Some practitioners affirm that the French preparation is a vinous infusion of the F/ower of the Colchicum.

Dr. II ilson's Tineture for the Gout.-This is merely an infusion of Colchieum, as Dr. Williams, of Ipswich, has satisfactorily shown. Since the discovery of colchienm being the active ingredient of the Eau Medicinale, numerous empirical remedies have started up, containing the principles of the plant in different forms.

Aqua Camphorata.-Sulphate of Bates'scopper is the base of this preparation, which was strongly recommended by Mr. Ware. The following was his recipe: - B. Cupri Sulph. Boli Gallie, a. a. gr. xv. Camphor gr. iv. solve, in aq, fervent, fiv. dilucque cum aquæ frigidæ oiv nt hat Collyrium.

 $Lisbon\ Diet\ Deink$.—Decoetum Lusitanieum, -R. Sarsap, concis. Rad. Chinæ, aa. 5j.— Nueum Jugland. Cortice Siccatarum, No. xx. Antimonii Sulphureti \(\bar{z}\)ij. Lapidis Pumicis pulverisat -Aquae distillat. lib. x .- The powdered antimony and pumice stone are to be tied in separate pieces of rag, and boiled along with the other ingredients. The use of the pumice stone is merely mechanical, to divide the antimony.

Emplastrum Ammoniaci, L.—Ammoniacum, reduced to a suitable consistence by distilled vinegar. It adheres to the skin without irritating it, and without being attended with any unpleasant smell. There is a peculiar disease of the knee, to which servant maids, who sconr floors upon their knees, are liable, and for which this plaster is a specifie. It is particularly eligible in cases of delicate women with irritable skins. A person of the name of Sterry, in the Borough, prepares a plaster of this description, which is sought after with great avidity.

Vesicatory Sdk has been prepared as a substitute for the common blistering plaster. The following is the formula of Cadet de Gassicourt; Tineture of Cantharides, q. s., evaporate, and when in a state of sufficient concentration, spread it hot upon strained silk; it will be necessary then to spread two or three layers one upon another.

Guisberi's Epispastic Silk .- Mezereon bark oz. 24, Water 1,500 parts; boil, strain, and add Pulverized Cantharides, Myrrh, Eupliorbium aa 24 parts; boil, strain through a double linen cloth, and evaporate until the liquor is of sufficient d usity to allow it to be spread upon waxed silk.

Baynton's Adhesire Plaster. (Strapping.)-Differs only from this preparation in containing less resin, six drachms only being added to one pound of the litharge plaster. This excellent plaster is sold ready spread on calico.

EXTRACTS FROM FOREIGN JOURNALS,

Esperimental Researches upon the Formation of Arterial and Venous Cicatrices.

M. Amnssat gives the following as his conclusions on this subject :-

1st. The frequency of aneurisms after wounds of arteries in the human subject had banished all hope of obtaining arterial cicatrices, and it had become a principle that wounds of arteries could not be firmly cicatrised 2nd. His experiments upon living animals and some facts observed in man, prove the possibility of obtaining durable arterial cicatrices. They fully confirm the views of J. L. Petit and the theory which he had deduced simply from facts observed in the human subject. 3rd. Arterial cicatrices are never formed by the immediate reunion of the lips of the wounded vessel; these are always accomplished by the interposition of a clot of fibrine which adheres to the edge of the opening, becomes hardened, is organised and takes all the characters of the parietes of the artery with which it is identified. 4th. The results of general practice, in wounds of arteries in man, prove that much has been left undone in the way of obtaining solid arterial electrices. 5th. In general, too much haste is made in obliterating the wounded vessel, doubtless because great fear is entertained of wounds of arteries with the foreknowledge of inevitable aneurism, "6th. To obtain solid and durable arterial cicatrices, we must endeavour to maintain the clot in position, lower the action of the licart and keep the part in the most perfect immobility, in a word act as in fractures of the bones, that is to say, fulfil all the conditions necessary for obtaining perfect consolidation,

On the subject of venous cicatrices, he sums

up in the following terms:-1st. The cicatrices of venous wounds are formed in the same way as those in arteries, that is to say by a clot of fibrine, which closes up the wound and eventually becomes organised and united around the orifice, so as to form a species of ampulla. 2nd. The venous ampulla which exists after a wound, is merely the united cicatrix distended by the feeble impulse of the venous blood, 3rd, This anquilla is not an bernia of the internal membrane, as is generally believed, or as the experiment of inflating a vein would lead one to think. 4th. His experiments as well as observation on the human subject prove that venous cicatrices may take place in man, as well as in animals. The consequence to be derived from this fact, is the necessity of sustaining perfect compression for two or three days or even longer after the wound of a vein.

Dr. STEVEN'S THEORY OF VITALITY.

(To the Last wot the " Medical Time

Str,-In a number of your periodical for Oct. 1st, 1842, there is an article giving an account of a new theory of the cause of vital phenomena (supposed to be by Dr. Stevens) in which it appears to me that the conclusions arrived at are not such as are necessarily deduced from the experiments made. Dr. Stevens has found that, after removing the brain and spinal cord from a living animal, respiration, circulation, asssimilation, &c., still continue for a short time to proceed as before, and hence concludes that the brain and spinal cord are not the continents of the principles of vital action, and fixes on the solar ganglion as the seat of life, and further decides that mind or mental power has no effect, or very little in sustaining vit dity, and that something else has, which he calls the VIIAL WEST OR LIFE. Now, I would ask, what difference does it make whether wo say, at once, that an animal lives by means we do not comprehend, or say, with the appearance of great knowledge. that a VITAL AGENT produces vitality-that

nation, any more in the light than before? Do we know any better how animals live? I trownot. Dr. Stevens takes an animal, deprives it of its brain and spinal cord, and it lives afterwards, at the utmost seven hours. This proves that life does not merely consist in respiration, circulation, assimilation, secretion, absorption, &e., for these continue after the removal of the brain, and yet the animal dies; the creature not only requires to digest food, breathe, &c., but requires to obtain and masticate at first.

The experiments in my mind seem to shew that the brain is most necessary to life, and the short apparently vital existence, after its removal, may be most truly compared to the stoppage of a steam engine by extinguishing the fire, or letting off the steam, without injuring any of the machinery; the motive power is lost, but the machine still proceeds on its course stopping by almost imperceptible degrees, but by breaking any of the cranks, pistons, wheels, or other apparatus more immediately connected with the motion, the stoppage is more instantaneous, yet every one allows the fire or steam at least to be the real motive power. So with an animal, vital action does not cease so immediately on the removal of the brain, as on the removal of the heart, lungs, &c., which are, nevertheless, not the principal agents in vitality. But this illustration may be carried further. The experimenter says, mind is not the origin of life. No doubt he will say, that the motion of a steam engine is independent of mental power—but what would it be without mind? Should we have any steam engines at all, are they not outbirths of the inventive powers of the mind of man? And are not the improvements in them consequent on superior mental powers? Is not the mind of man continually aiding them in their course and keeping them under controul? a time the direction of mind away and collisions, explosions, and death will follow. Just so with animals and all nature, they are outbirths of the mind of the Creater, who is continually acting, in creating, protecting, and guiding them, and as he has given to man a capability of improvement, and faculties approaching nearcr to the divinity, so he leaves him, in a meusure, to his own guidance, and gives him a species of controll over inferior nature; but as instinctive creatures, possess no mental faculty of their own, they are immediately under the guidance of their Creator, who directs them in the way suited to their state and character, and each in his peculiar kind is perfect; his instinct, i.e., the direction of the Allwise leading him to do that only for which his conformation suits him, and the opinion of an old writer is much to the point, where he says "Deus est anima bentorum." Another point, Dr. Stevens tonches on, is Somnambulism, and he says, that in this state the mind is asleep, the body and the vital agent active. The fact, I think, will be found to be that the body is asleep, and the mind fully awake. Thus a person asleep, gets up, dresses himself, and goes to write, and though a board be placed between his eyes and hand, he still writes as correctly as before. Does not this show that the eye of the body transmits no impression to the mind, being asleep, but that the mind in its intense activity actually raises the dormant body, and causes it to perform its functions almost as if awake. I was told a day or two since of a person in the habit of sleep-walking; my informant who saw him in this state, knelt before him, and the somnambulist fell over his prostrate body and awoke. Here had there been no fresh object in the way, the sleeper would have continued his course, having in his mind the impression LIFE causes life. Are we after this lucid expla- of the positions of the articles in the room, but

this fresh obstacle was not made known to his mind by the sleeping outward senses, and consequently not avoided, the sudden jerk roused him and the objects were distinctly perceived. Their not recollecting, on awaking, the circumstances occurring when asleep, arises from the fact, that the remembrance of actions is caused by the impressions made on the mind through the senses, which cannot be the case when the senses sleep; the ideas directing the somnambulist being those formed whilst awake. A Subscriber.

Bath, March 1, 1813.

MAXIMS IN MIDWIFERY. By Edward Elton, M R C

OF THE PELVIS, ITS ARTICULATIONS AND THEIR DISCASES.

The hones of the adult pelvis are four in number-the two ossa innominata, the sacrum, and the os coccygis. The latter of these presents the greatest interest to the obstetrician, from its cartilaginous and osseous portions possessing a minor degree of flexibility when pressed upon by the passage of the fætal

The ligaments of the pelvis are the obturator and sacro-ischiatic, but they are of little importance in connection with active parturition. The obturator ligament has an aperture transmitting the vein, artery, and nerve of that name-the latter is sometimes injured and compressed during the passage of the foetal head through the pelvis. Preternatural rigidity of these structures is an occasional cause of lingering and retarded labour.

III.

Anchylosis of the sacro-coccygeal articulation is a very rare affection, but rigidity of this structure, in women who marry late in life, may occur, offering a considerable impediment to the expulsion of the head, by contracting the pelvic outlet, and forming another cause of lingering labour. Sitting, sedentary persons as milliners are very liable to this affection. Disruption of this joint, from forcible and violent pressure of the vertex is spoken of by Denman; inflammation may occur from similar causes, and suppuration of these parts sometimes happens in scrofulous subjects. IV.

The articulation of the symphysis pubis is liable to inflammation, and quickly becomes the "subject of suppurative action, attended with high constitutional excitement and no small danger." This affection is of a very distressing character, and very difficult of cure, commonly confining the patient to the bed or the sofa for many months. It is to be treated in the most active anti-phlogistic manner, especially if it occur (which it is very apt to do) in scrofolous women, with blue eyes, fair complexion, flaxen hair, and attenuated Leeches, blisters, issues, and setons, may be employed according to the active or chronic character of the disease. Avoid debility, and subdue the complaint as quickly as possible, is a maxim of mighty truth in every department of obstetric medicine. V.

Relaxation of the symphysis pubis may occur independent of pregnancy, but it most frequently happens in connection with it. A painful state of uneasiness, which gradually increases until every position becomes one of great suffering, invariably developes itself during the progress and presence of this affection in the absence of parturition. But when that period supervenes, the woman will tell you that "her bones are in motion." Dr. gery.

move;" and that, upon making an ordinary examination, "the motion may be distinctly felt." After parturition, the joint recovers its lost powers in many cases, but its abnormal relaxation may "recur in an increased degree, with each succeeding gestation." In treating this peculiar and painful affection, the constitutional remedies indicated are, bitters, tonics, and alteratives, - whilst the local ones consist in plunging the hips into very cold water (a plan first recommended by Denman), a wellcontrived, unvielding bandage, to bring the relaxed parts into closer contact, and keeping the extremities of the bones bearing upon each other, by a slight though firm pressure, whilst the patient should be kept at perfect rest, in the recumbent position.

The sacro-iliae synchondrosis is equally liable, with the symphysis pubis, to relaxation of its cartilaginous and ligamentous textures. Great pain in the back, and total incapacity of standing without firm, external support, are the symptoms mentioned by Sir C. Clarke, which "will enable you with facility to detect the disease in most instances." quizzically recommends medical men to remember that women are liable to this affection. Time has been known to cure this species of relaxation, but a strong, broad, bandage-belt would undoubtedly be of more service in this case, than in the one alluded to in the last maxim, from the affected articulation affording a broader surface for pressure.

OF THE PELVIS CONSIDERED OBSTETBICALLY. VH

The standard pelvis of a woman has been divided into the true and false pelvis; and the former of these has been sub-divided into its superior part, or "brim," its inferior part, or "outlet,"—whilst the intervening space has received the name of the "cavity of the pelvis." The brim, whose ossenus portion is chiefly formed by the ilium, is elliptical in shape, its regular oval being broken by the promontory of the sacrum-its average width between the sacrum and pubis is four inchesits average dimension, from side to side, is five inches-its oblique dimension, which stretches between the acetabulum on one side, and the sacro-iliae synchondrosis on the other, is $5\frac{1}{4}$ inches; these are nice points, but of great importance to remember. The "outlet," into which the ischium and pubis both enter, is more square than the brim, and its relative diametrical dimensions, as above described average four inches in either direction. But the diameter of this inferior portion may be elongated about one inch by the flexibility of the os coecygis, alluded to in my first maxim. It must be borne in mind, therefore, that, whereas at the "brim" the long measure is from side to side, and the short measure from before backwards -at the "outlet" the very reverse of this is the fact, the greatest dimensions there being from before backward, whilst the lesser one is from side to side.

VIII. The cavity of the pelvis is of various depths, —in front it may be shallow, behind it may be deeper. This fact should be borne in mind in naking an examination. "The greatest depth is from the sacral promontory to the tip of the coccyx, and should be from five inches and a half to six inches; at the side, from the lowest point of the tuber ischii to the brim, three inches and a halt; and behind the symphysis pubis, one and a half." Of the arch

* Ramsbotham's Obstetric Medicine and Sur-

Blundell states that he has "heard them of the publis it may be observed, that it is at the point of this arch that you will always find the orifice of the female wrethra in the absence of active parturition. You will find this arch to vary very much, being of a wider space in some women than in others; -so important is this, that it may be truly observed that the wider the pubic arch, the wiser will be the child. It is of the greatest importance that every student should be correctly acquainted with the normal incurvature of the pelvis. Let him always, therefore, remember that the axis. or central line of the "brim." is downward and backward, whilst that of the " ontlet" is downward and forward ; -how very important and how very easy it is to recollect these "small matters," on which the lives of hundreds placed in our hands may de-IX.

It would be a most fortunate thing if every child-bearing woman possessed a standard pelvis of the size and diameter already alluded to -but, alas! this is not always the case. The pelvic shape and eavity may be distorted from their normal shape, and contracted in volume and capacity, by the presence of rachitis in youth, or malacosteon in adult age, in each of which the osseous system is found to be defective in solidity and strength, from the earthy matter entering into its formation being deficient in quantity, and the animal matter being in excess. This deformity may be partial, when either the brim, the cavity, or the ontlet alone, are affected -or it may be general, when all these parts partake, more or less, of the deformity. "If the vicious formation be confined to the brim, the diminution in size is almost always produced by the promontory of the sacrum jutting too far forwards, and by this means contracting the conjugate diameter; if to the eavity, by the sacrum being too straight, so that the hone does not possess its due curvature; if to the outlet, by the tuberosities of the ischia approaching too near each other, or by the spinons processes of the same bones being too long, and directed too much inwards; or, again, by the joints of the coccyx having become anchylosed, and thus lost their mobility. Of these irregularities-the most frequent is that met with at the brim-the most rare, an undue straightness of the sacrum."

This contraction of the pelvis may be elliptical at the brim when the sacral promontory approaches to the symphysis pubis, and the diameter from before backwards becomes diminished, whilst that from side to side is increased; or it may occur at the outlet, when the symphysis pubis may approximate to the lower portion of the sacrum and coccyx, rendering the passage of the feetal head utterly impracticable. But this distortion may be angular at the brim by the sacral promontory and acetabula being pressed in upon the axis of the pelvis - or at the outlet by the approach of the tuberosities of the ischia and the incurvature of the sacrum and coccyx.

XI.

The elliptical distortion is generally supposed to be caused by rachitis, whilst the angular has been considered to arise most frequently from malacosteon.

In delivering women who unfortunately labour under pelvic deformity, it may be laid down-1. That a living child may be brought into the world through a pelvis which has a clear available space of three inches in the conjugate by four in the lateral diameter .-2. That unless there be a space at the brim of

* Ramsbotham's Obstetric Medicine and Surgery.

one inch and three-eighths in the conjugate by three and a half at the iliae, or one juch and a half in the conjugate by three in the iliac, it would be useless to attempt delivery by the natural passages, but it is very rare to find the lateral diameter at the brim less than three

The obstetric treatment of a woman in labour, who has a contracted pelvis, is one at which the stontest heart may well stand appalled. In such cases, Nature has fearfully departed from her course of wise and adaptive conformation, and art and science must step in to save the life of the sufferer. If there exist not an adequate extent of space as before alluded to, embryotomy must be had recourse to, or the more dangerous performance of the Caesarean section—an operation whose very contemplation is dreadful, and which (with three exceptions only) has hitherto proved fatal to the mother in this country.

XIV.

The following maxim may be relied upon as correctly diagnosticating such fearful cases .-"Whatever may be the deformity of the spine, if the legs are straight, the pelvis will be found well-shaped, but if the legs are crooked the pelvis is deformed. If women walk with their toes much turned out, they have a narrow pelvis, the acetabula being nearer to each other than being very sharp; such women suffer much in labour."*

GENTILITY-MONGERING.

(From Blackwood's Magazine for March.)

There is another class of gentility-mongers more to be pitied than the last; those, namely, who are endeavouring to "make a connection," as the phrase is, by which they may gain advancement in their professions, and are continually on the look out for introductions to persons of quality, their hangers-on and dependents. There is too much of this sort of thing among medical men in London, the family nature of whose profession renders connection, private partiality, and personal favour, more essential to them than to others. The lawyer, for example, need not be a gentility-monger, he has only to get round attorneys, for the opportunity to show what he can do: when he can do this, in which a little toadying, "on the s/y," is necessary-all the rest is easy. The court and the public are his judges; his power are at once appreciable; his talent can be calculated, like the money in his pocket; he can now go on straight forward, without valuing the individual preference or aversion of any body. But a profession where men make way through the whisperings of women, and an inexhaustible variety of sotto vece contrivances, must needs have a tendency to create a subserviency of spirit and of man ner, which naturally directs itself into gentititymongering: where realities, such as medical experience, reading, and skill, are remotely, or not at all, appreciable, we must take up with appearances; and of all appearances, the appearance of proximity to people of fashion is the most taking and seductive to people not of fashion It is for this reason that a rising physician, if he happen to have a lord upon his sick or visiting list, never has done telling his plebeian patients the particulars of his noble case, which they swallow like almond

milk, fluding it an excellent placebo. As it is the interest of a gentility-monger, and his constant practice, to be attached to a fashionable physician, in order that he may be enabled continually to talk of what Sir Henry thinks of this, and how Sir Henry objects to that, and the opinion of Sir Henry upon t'other, so it is the business of the struggling doctor to be a gentility-monger, with the better chance of becoming one day or the other a fashionable physician. Acting on this principle, the poor man must necessarily have a house in a professional neighbourhood fashionable or exclusive; he must hire a carriage by the mouth, and be for ever stepping in and out of it, at his own door, keeping it purposely bespattered with mud to show the extent of his visiting acquaintance: he must give dinners to people "who may be useful," and be continually on the look out for those lucky accidents which have made the fortunes, and, as a matter of course, the merit, of so many professional men.—He becomes a Fellow of the Royal Society, which gives him the chance of conversing with a lord, and the right of entering a lord's (the president's) house, which is turned into a sandwich-shop four times a-year for his reception; this, being the nearest approach he makes to acquaintance with great personages, he values with the importance it deserves .-His servants, with famine legibly written on their brows, are assiduous and civil; his wife, though half-starved, is very genteel, and at her dinner parties burns candle-ends from the palace.—If you pay her a morning visit, you will have some such conversation as follows .- "Pray Mr .---, is there any news to-day?"--"Great distress, I understand throughout the country. "Indeed—the old story, shocking—very.—Pray have you heard the delightful news? The Princess-Ropal has actually cut a tooth !"-"Indeed?"-"Yes I can assure you; and the sweet little royal love of a martyr has born it like a hero."—"Positively?"—"Positively, I assure you; Doctor Tryiton has just returned from a consultation with his friend Sir Henry, upon a particularly difficult case-Lord Scruffskin-case of elephantiasis I think they call it, and tells me that Sir Henry has arrived express from Windsor with the news,"-" Indeed!'-"Do you think, Mr. ---, there will be a general illumination?" -- "Really, madam 1 cannot say."- "There ought to be [with emphasis.] You must know, Mr. -- Dr. Tryiton has forwarded to a high quarter a beautifully bound copy of his work on ulcerated sore throat: lie says there is a great analogy between ulcers of the throat and den-den-densomething, I don't know what-teething, in short. If nothing comes of it, Dr. Tryiton, thank Heaven, can do without it; but you know Mr-, it may, on a future occasion, be useful to our family.

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(Sugned) "C. II. WITKINSON, ALD."

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ON THE LAWS OF THE DEVELOPMENT OF ORGANS; OR TRANSCENDENTAL ANATOMY APPLIED TO PHYSIOLOGY.

By F. R. A. SERRES, Member of the Institute, of the Academy of Medicine, Professor to the Micromond Natural History. Paris, &c., &c., &c.

SUMMARY.—Various determinations given to the middle region of the brain, (Gall, Curier, Tiedemann, Treviranus, &c.)—Application of the peinciple of connections as well as of the facts elected by organogeny, in the determination of the elements of the brain in the four classes of vertebrata, and of the os quadratum of birds—Itd given by this principle to ovology—Determination of the unbifical vesicle (Semmering, Wrisberg), and of the allantoid (M. Datrochet), by the principle of connections.

WE have stated in our preceding remarks that the chain of analogies, as exhibited in man and the chain of analogies, as exhibited in man and the mammifera was broken in birds. How was it that this interruption took place? Evidently, in consequence of the new forms presented by the middle region of their brain. To reduce these forms to those of the mammifera which serve as the type, the method so successfully adopted by Geoffroy Saint Hilaire presented itself; namelyto seek in the brain of the feetns of the mammifera an organ corresponding in form to that of the middle portion of the brainin birds; such appeared to me at first the most likely means of reaching the solution of this problem. In execution, how-ever, 1 was arrested by a difficulty which, for some time, seemed insurmountable. The human embryo at no period of its existence reproduces in the brain a form at all resembling that of the middle region of this organ in full-grown birds, This form is entirely peenliar and characteristic of this latter class. Discouraged by failure, I was about to renounce my efforts, when the idea occurred to me of comparing together the embryos of the two classes. In fact, if we consider on the one hand that this middle region is one of the most complex and most perfectly organized parts of the brain in birds; and, on the other hand, if we regard the atrophy of these parts (or of those which, according to Gall and Cuvier, we may consider as their analogues) in the mammifera and man, we shall find that there could be but little comparison between the two. For though the tubercula quadrigenina in the embryos of the mammifera are constituted by two vesicular lobes as those of birds, their situation and structure are so different, that the dissimilitudes greatly surpass the analogies; in the embryos of the mammifera, the lobes form a very marked projection upon the upper surface of the brain, and are, in fact, its most prominent part; in birds they are invisible upon this surface, and in their place we find a quadrilateral layer. In the full-grown bird, these lobes are contracted upon the sides, and form, at the base of the brain, the projection, which, in the mammifers, is found at the opposite surface. We see, then, that the two terms of comparison were formed from the opposite surfaces of the brain in the two classes,-

Lastly, the embryonic lobes of the mammifera are in contact; those of birds, on the contrary, are greatly distant one from another, though united tegether by the commissura magna, formed by alternate strike of white and grey matter.

If, in spite of such dissimilitudes, some anatomists (as Gall, Cuvier, Tiedemann), have drawn together parts so different, the heterogeneous characters which they presented gave rise to doubts, , and so led to new theories. Thus, after the work of M. Tiedemann, M. Treviranus revived the views of Haller and Malacarne, which he modified in a very ingenious manner, thinking to have discovered the tubercula quadrigemina of this class in a small swelling situated over the sides of the aqueduct of Sylvius, and upon the transverse layer which serves as a covering to this aqueduct. If M. Tiedeman could cite in favour of his opinion the envity of the lobes in the human embryo and the opening between this cavity and the aquedact of Sylvius, M. Treviranus could allege in favour of his views the fixed position of the parts which he compares in the two classes. Moreover, he found in the adult mammifera solid tubercles, like those of birds. His hypothesis was the more attractive, inasmuch as he had not only discovered the four tubercles of the mammifera, but also found in the middle lobes of birds the analogues of the corpora geniculata of the upper class. M. Rolando again regards the middle part of the brain in birds as corresponding to the optic thalami of the mammifera; while M. de Blain-ville, in a work published in 1821, assimilates this region to the cerebral hemispheres of the upper

We thus perceive that in this short space of time, four distinct theories were advanced on this subject : -1st. That of Gall, Cuvier, Arsaki, and Tiedemann, who assimilated this part to the tubercula quadrigemina.—2. That of M. Treviranus, who thought to have discovered in it the four tubereles, as also the corpora geniculata. - 3. That of M. Rolando, who compared it, as Willis and Vicq-d'Azyr had done, to the optic thalamus,-and 4. That of M. de Blainville, who considered it as analogous to the cerebral hemispheres. If anything positive could be deduced from these different opinions, it evidently was that this middle region of the brain in hirds was not accurately determined; and this common accord of anatomists, in directing their whole efforts towards this region, attested that all were of opinion that here lay the source of their incertitude upon this part of comparative anatomy, and that here also we ought to seek the key which might dissipate those doubts. Now, whenever a difficulty of this nature presents itself in the sciences, we should, according to the precept of Bacon, crase from our minds all that has been said or done upon the subject, and then proceed in our researches upon new facts and new observations. We shall then find, as this illustrious philosopher has said, that facts speak more strongly than words.

In fact, it required, in this state of anatomy, a determination which, efficing all the dissimilitudes of which we have spoken, and restoring the middle lobes of the brain in birds to that position from which they have been displaced, should assign to then the same limits which they occupy in man, the mammifera, reptiles, and fishes; a determination which, to this unity of position, should join unity of form, of structure, and which, to complete the application of all the rigorous laws of anatomy, should likewise join to them unity of relation or connexion. Then should we be enabled to tell not only what functions this part possesses, but likewise what it does not possess. Now, such a result we can hope to obtain only by the pursuit of comparative embryogeny.

A. Unity of Position.—I will preface my remarks by saying, that I have assigned the common name

of optic lobe; to this part, in all classes, by reason of its constant connexion with the optic nerve. On tracing the formation of these lobes, we find them situated upon the superior surface of the brain in the bird on the third, fourth, fifth, sixth, seventh, and eighth days of incubation. They then make upon this surface the same projection as the lobes of the tubercula quadrigemina in the human embryo at the second month; in the sheep and calf, at the fifth and sixth week; in the tadpole, or young frog, from the tenth to the twelfth day of formation; and in hishes, throughout all the conditions of their permanent organisation.

n. Unity of form and of structure.—At the above period of incubation in birds, the optic lobes are of an oval figure, somewhat depressed inwards, similar to the tubercula quadrigemina in the human embryo as well as in that of the calf, of the sheep, of the fish, &c. Their interior is hollow, and filled by a liquid in all classes. In all, the walls are formed of a thin layer, at first separated from its fellow, but soon afterwards becoming intimately united.

v. Unity of connection .- These lobes in all classes cover over the aqueduct of Sylvins. In birds, as in all other classes, we constantly find at the posterior part of these lobes, the insertion of the fourth pair of nerves; in front and below, that of the optic nerves; in front and above, the pineal gland and its pediment; while anteriorly, their cavity opens into the third ventricle, and posteriorly into the fourth. If we could, at will, arrest the forms of the brain in all classes at this period, we should see how simple would be the comparative anatomy of this part—or rather, we should find nothing but a system of analogies throughout coganised beings. But if, quitting embryonic life, we suddenly come to the perfect animal, a very different picture presents itself to our notice. A total change takes place in the optic lobes of birds; the insect is not more different from its larva, the butterfly from its chrysulis, the frog from its tad-pole, than the optic lobe of the adult bird is from the same organ in the embryonic bird. A complete metamorphosis takes place, in which every thing becomes changed, excepting the connexion. In fact, in the semi-circle, accomplished by each optic lobe in its rotation around the cerebral pedunculus, the fourth pair of nerves, the optic nerve, the pineal gland and its pedunculi, remain invariably in the same place, evidences, as it were, of their primitive analogy in birds, as well as of their permanent analogy in reptiles and fishes.

Now, this middle region of the brain being known and determined in all classes, the knowledge of all the other parts is necessarily derived from it; this is, as we have already said, the key to this so varied organ in the series of the verte-brata. Thus, behind the optic lobes, we find the cerebellum; an organ impossible to be mistaken, whether it be reduced to its smallest dimensions, as in reptiles, or carried to its maximum of development, as in the mammifera and man; or, lastly, whether we find it in its fixed forms, as in birds, or in the variable forms which it presents in fishes. So also with the cerebral lobes which, though not less variable in their forms than the cerebellum, cannot for an instant be mistaken in any class. Again, the pair of lobes placed on the fore-part of the cerebral hemispheres always represent the offactory lobes, whether they equal in size the cerebral lobes, as in certain fishes, or are almost totally absent, as in nearly all birds and some mammifera; whether finally they are placed upon the same line as the cerebral lobes, whether they are conscaled at their lower part, or project far beyond them, as in many reptiles. Such are some of the numerous diversities brought to a state of unity. No one, then, at the present day can doubt that the brain of vertebrated animals may be brought to an uniform structure, and that the laws of its variations may be determined.

The rigorous determination of the organic elements is, then, the basis of comparative anatomy. and organogeny one of the most positive means of arriving at this result. This determination becomes especially difficult in the apparatus of the life of relation, when, in their dismemberment, the parts composing them change in design or use, and become differently associated to produce new functions. Function then ceasing to direct the anatomist, it became indispensable to have recourse to other characters drawn from the organs themselves while undergoing these transformations. Among these anatomical characters, that of connexions deserves especial attention. We have just seen its application in the letermination of the elements of the brain; and another instance will be found when studying the bony apparatus placed upon the sides and base of the cranium, and which are so diversified in the series of animals.

What combinations must have been attempted before discovering that the little benes of the ear are transformed, in fishes, into bony processes. assisting to form the respiratory apparatus! What concord in the results brought about by anatomy and by pathology to show us that the facial nerve is a nerve of respiration! It seemed a still more difficult matter to explain the as quadratum in birds; it was necessary, in fact, first to discover the parts which enter into its composition, and to deduce the individuality of these parts from the same necessity of use which they have in the mammifera and man. The frame of the tympanum forms a ring at the entrance of the external anditory canal. Now, the whole ring is formed of two pieces at least, as we have already said. Such 1 have always found to be the case in the young embryos of the mammifera and man. These two small hones, which have been named by Geoffroy Saint-Hilaire, the tympanal and the servial, are always distinct in early age. Now, to this bony process we afterwards find added a third, applied against the base of the petrous portion of the temporal bone, and of which the object, in man, is to complete the carotid canal; this is the cotyleal of M. Geoffrey. By its body, this bone partitions off the entrance of the carotid into the the cranium, and, by its extremity, it aids in forming the eavity designed for the articulation of the inferior maxillary bone. The internal carotid being carried in man to its highest point of development, the body of the cotyleal is enlarged in the same proportion, its articular extremity, being, at the same time, atrophied. But in proportion as we descend from man, the internal carotid being diminished in size, the carotid canal itself is lessened, and consequently the body of the cotyleal is more and more reduced; but what the body of the bone loses in volume is gained by its extremity, which, embracing the base of the tympanal and the serrial, forms in the genus felis, the external auditory concha, named the caisse, or drum, by M. Cuvier. This drum is thus composed of the tympanal, the serrial and the cotyleal bones; on a level with them we find the stylhial, devoted to the functions of the hyoid bone. Now, in birds, the styllnial becoming united with the other three bones, a moveable bone having four surfaces is formed: this is the os quadratum, a kind of regulator to the movements of the maxillae in this class. It thus results from the varia-tions of functions in these different bones, that the only character to which they are subjected, is that that of connexion; and this connexion may be also remarked in reptiles, and especially in fishes. in which classes these parts remain entirely sepa-

rated in the young embryo, The principle of connexions is, in animal organogeny, a guide equally sure and fertile in its results as that of insertions in vegetable organogeny. The one corresponds to the other, and both are in a particular manner applicable to phytogeny and zeogeny, especially the latter, by explaining the earlier developments; for the organisms being primitively isolated, we may conceive that their association must take place in a fixed and prodetermined order, so as to accomplish their formations. Now, the connexions are the bonds by which these necessary relations are established, and these bonds frequently become the distinctive signs of the organisms, and the bases of the compari ons which are drawn between the different

classes of animals. So far we are guided by zoetomy, without the aid of comparative anatomy .-This latter science can, in fact, only commence when the determination of analogous organisms has been already accomplished in the animal

Ovology was very early cultivated. Hippocrates, Aristotle, Galen, &c. studied with zeal the adven-titions coverings of the embryo; Malpighi, Graaf, Needham, and their contemporaries pursued his branch with equal perseverance. Ovology advanced under their guidance, but not comparative ovology: comparative ovology is principally of recent date and its rapid progress, together with its great certitude, have fully demonstrated the power of the principle of determinations, of which this science is but an application. We know that the ovology of birds serves as the term of relation to comparative ovology; we know also the important part which the vitellus plays in this class, both by reason of its size and of its connection with the intestine, by the vitello-intestinal pedicle. This organism, carried in them to its maximum of development, entirely eluded the notice of observers in man, on account of its extreme minute-Albinus originally perceived an isolated vesicle in the feetal membranes. Semmering, who also observed it, was the first to indicate its relations with the intestines; and Wrisberg described in the young embryo the vitello-intestinal pedicle, so as to leave no doubt of its analogy with the vitellus of birds. It is by this determination, established at the two extreme points of its existence, that science has been guided, and hence the prooress made in the study and comparison of this organ throughout the animal kingdom. The determination of the allantoid was, however, a more difficult matter. In birds this membrane had been mistaken, by reason of the differences, irreconcileable in appearance, which separate it from that of the ruminantia, in which class, like the vitellus in birds, it is carried to its maximum of size. what is the connexion of this organism in the ruminantia? It is a double bladder, constricted in the middle. One of these bladders occupies the pelvis of the embryo; the other is lodged in its membranes. The constriction is formed by a hollow pedicle uniting them together. Now, this is exactly a repetition of the connections of the umbilical vesicle with the intestine. It was this connection which M. Dutrochet took as his basis when he named this membrane the ovo-urinary bladder; and this denomination, recalling its principal anatomical attribute, has become the guide which has directed anatomists in this formerly so confused, but now so accurate, part of comparative evology. This result has been brought about by a rigorous mode of determination alone. So also was it upon the connexions of the ovum with the membrana decidua that Hunter based his description of this membrane.

These results, however remarkable, are, perhaps, less striking than those which have recently established the comparative anatomy of the proliferous vesicle. The anatomists of the 17th century were perfectly aware of the existence of vesicles in the ovary of the mammifera as well as in that of the human race. Unfortunately these vesicles were compared to the ovum of birds, and this error of determination destroyed the application of this discovery for more than an age. Graaf, however, who first pointed out the ovarian follieles, stated that they became ova only in the nterns; but his explanations on this subject were extremely confused. Haller and his school imagined the Grantian vesicles to be filled with a fluid which, at the moment of impregnation, escaped into the Fallopian tubes. Hayston endeavoured to prove this position, while Cruiskamp on the other hand, laboured to refute it by numerous and precise experiments. Still, after volumes written on this subject, the question was abandoned by reason of the failure of the modes of determination then adopted, to bring the facts which it embraced within the domain of comparative anatomy. But on reconsidering these facts, according to their true signification, as so happily expounded by the German anatomists, we shall see exhibited an exact knowledge of the Graefian vesicle, as well as of the exule enclosed inits interior. | blood, instead of passing out of the yagina, collects

the discovery of the proliferous vesicle, and its conversion into the blastodermic membrane, as the effect of impregnation. Comparative anatomy will thus succeed to zootomy; for these parts once accurately determined in a class, their application will immediately take place in all others. Placed by this order of researches at the commencement of animality, we shall pass without interruption or gap from the vertebrata to the invertebrata, and appreciate with their just value the modifications which all these parts undergo in the different scales of the animal series. To ovology will succeed comparative ovology, and this, in its turn, becoming confounded with ovogeny, is a new proof that comparative auatomy and organogeny are often one and the same thing. Such is precisely the case, and this affords an explanation of the rapid progress of ovogeny. Facts were not wanting to the anatomists of the seventeenth and eighteenth centuries to enable them to found comparative ovogeny. Why, then, was it not founded? Evidently because there was a something wanting to these facts to enable them to be compared one with another, and thus to exhibit the bonds which ought to unite them together. However numerous they might have been, their affinity was net perceived, because they remained undetermined. This determination has more recently been accomplished by means of a precise principle, and comparative ovology, as well as avogeny, have progressed rapidly towards their degree of per-

We shall shortly see, that the same kind of indetermination has also arrested the progress of general embryogeny. The same cause holds, as it were, apart the organisms of invertebrated animals. Their zootomy so advanced, so rich in some particulars, is almost barren in what regards comparative anatomy. The one half of the animal kingdom is foreign to the other. Let us then attempt to draw them together by fixing the determination of that among the organic systems which, in the branch of the invertebrata, rules and governs all others-the nervous system; while, at the same time, we endeavour to render intelligible those anomalies which this branch presents when compared with that of the vertebrata.

SHORT APHORISMS ON THE TREAT-MENT OF UTERINE HEMORRHAGE.

By CHARLES CIAY, Mamber of the Royal College of Physicians, London Ac. Sc., Lecturer on Medical Juri-produces, Manche der.

In the following brief observations it is my wish to give (intended chiefly for junior practitioners) an Epitome of the nature and treatment of Uterine Hamorrhage, founded on practical experience. There is no point of obstetric duty that calls for greater display of energy and presence of mind, and none more trying, under many circumstances, than this; and it is so frequently occurring in every practice, that it soon convinces a tyro in the profession of its great importance, and that he should be well prepared with the general views entertained on such an important question, in order that he may meet the most extreme case on any emergency, with that judgment and determination which often ensure success, and increase the confidence of those placed under his management. The subject of uterine hemorrhage has been much better understood of late years than formerly, and there are many excellent writers who have taken up this subject alone, extensively, and with that judgment its importance demands; namy of them, however, are too lengthy for practical purposes, or to be easily borne in mind by the junior part of the profession, who must depend (for a time, in a great measure) on the experience of others. Such is the epitome of general practice I propose to give, shewing every feature under which such occurrences may exist, and in so concise a manner as to be brought almost within the immediate glance of those for whom these observations are intended.

The term, Uterine Homorrhage, is applied strictly to a flow of blood, per vaginam, from the inner surface of the nterus (with the exception of what is termed internal hamorrhage, where the within the uterine cavity), attended by particular symptoms and appearances, which may be considered as either accidental or unavoidable.

General Causes of Uterine Hamorrhage,-One of the principal causes of hiemorrhage, before childbirth, is the separation of the ovum from the internal surface of the uterns, wholly, or in part. After childbirth, the cause rests on the partial or entire absence of contractile force, in the uterus itself. The placenta, receiving its supply of blood directly from the internal surface of the aterus (to which it is adherent for that purpose), it follows, as a matter of course, if the whole, or any part of it, should be prematurely separated from its attachments, homorrhage must unavoidably occur, because the uterine cavity is not in a condition to obhterate the mouths of the vessels by contraction; in consequence of which, the blood flows into the cavity, distends it, excites uterine pain, dilates less or more the os uteri, and finally escapes from the vagina. Premature separations of the placenta may generally be traced to falls, blows, passions, fits, violent muscular exertions, &c. After delivery, the principal cause is, a want of power to contract in the uterus itself; thus, the mouths of the blood vessels, which contraction would otherwise obliterate, remain undimished in size; hæmorrhage is therefore the consequence, whenever any interruption arises to this beautiful provision of nature.

Character of Hamorrhage. - Hæmorrhage varies in its character. Sometimes of very trifling extent; at others, in quantity almost incredible: sometimes of a thin consistence, filtering away almost insensibly, whilst, at others, in large, almost insension, winds, at others, in large, coagulated masses, the vessels rapidly emptying themselves, producing syncope, which sometimes gives a slight check to thooding, but is immediately resumed when the patient recovers. The quantity of blood lost is often surprising, without any serious injury to the female. I have had many cases which recovered without one bad symptom. after the loss of a fearful discharge of blood, and such cases have often impressed my mind with the fact, that pregnant females will bear far more extensive depletion than at any other time of life. That more blood in proportion exists in the pregnant female, there can be little doubt, and less on the supposition that more is required before childbirth for fœtal circulation, and after childbirth for the secretion of milk-horne out by the fact of severe cases of floodings being much longer before the secretion of milk appears, and in some very extreme cases it does not appear at all.

Progress of Hamorrhage .- If the hamorrhage be slight, and has not continued long, the prognosis may be favorable, but if it dribbles constantly away, and has continued long, the prognosis must be a guarded one. Indeed, in all cases of hæmorrhage, it is well to be very guarded at least, in prognosticating too positively, for many cases have sunk after the most effectual assistance, and when the discharge has been but trifling, and many others have got well, after a loss that, at the moment, appeared next to im-possible. The time it has continued is of great importance to be considered. If the flooding is apid, and large in quantity, the worst is to be eared, and prepared for. The external ap-learance of the female assists much in forming prognostics. I have known little, delicate, thin romen, bear large depletion by hæmorrhage, much etter than the more robust and plethoric, and it is uch that are generally more liable to it. I have lso observed that hæmorrhage occurs more fremently in the middle and higher classes than in be lower orders of society.

Symptoms of the Milder Species of Hemorrhage. hese are hetter understood when seen than escribed; pallid countenance, languor, nansea, mall quick pulse, profuse perspiration, chilliness, yneope, with more or less discharge of blood.

Of the Seperc Species.—The symptoms are synope, alternating with rapid and extensive floodings, often in large congulated masses. Sometimes, ontinued syncope, languor, vomiting, dim eyes, spid small pulse, cramps, cold clammy sweats, conclisive motion of the depressor anguli oris, tinni-

Cause of Hamorrhage during the First Stage of Labour.-As already stated, this is owing to an entire or partial separation of the placenta from the inner uterine surface. One of the worst species of hemorrhage is that arising from the mis-plucement of the placental mass; its usual attach-ment is to the sides, or fundus, but occasionally it is found adherent over the os uteri. In this case it is not necessary to produce hæmorrhage, that either a partial or entire separation from the uterine surface should take place. It is caused by uterine action (prematurely or otherwise) dilating the os uteri, (which, however slight) tears the vessels of the blood at every pain. It would perhaps be more strictly correct to distinguish these cases from the rest by the term placental hamorrhage; as uterine hæmorrhage can only be properly applied to those cases where the hamorrhage is directly from the vessels on the inner surface of the uterus. During the first stage of first labours there is a discharge of blood, often to a considerable extent, but which is not to be taken for uterine hæmorrhage (as I have known two instances where young men of little experience did so consider it), as it is quite independent of hæmorrhage, and unaccompanied with any of its symptoms. This is often the case with females who commence having children much later in life than usual.

What is to be done on Hæmorrhage occurring during the First Stage of Labour .- The first step is to ascertain the cause, and this can only be effected by an examination per vaginam; and having once introduced the hand for that purpose, it should never be withdrawn until the case is perfectly understood. The placenta will be found attached either over the os uteri, or higher within the uterns; if the former, the hæmorrhage will be placental, from the torn vessels by the dilating of the os uteri by uterine action; this case is easily detected by the soft cushion presented at the uterine orifice to the touch of the finger, and the pe-culiar gushes of blood at every pain, with the inability to define the presenting portion of the child beyond the cushion. But if the hæmorrhage pro-ceeds from a partial, or complete, premature separation of the placenta from the sides, or fundus of the uterus, these characteristics are absent (with the exception of the flow of blood), and the examination (per vaginam) presents no unnatural deviations to the touch, but from the existence of hæmorrhage the conclusion to be drawn is, that the placenta is situated in the higher portions of the walls, or fundus of the uterus, and wholly, or in part separated from its inner surface.

Treatment of Hamorrhage when the Placenta is in the higher portions of the Uterus.—This is either palliative or radical. The Pulliative consists in the admission of a free circulation of air, cold drinks, light clothing, quiet, anodyne draughts, &c. &c., provided sufficient caution is exercised, that the palliative treatment does not occupy too much time, and the patient's chance of life be thereby sacrificed.

Radical Treatment.-Should the palliative means fail in controlling the symptoms, the patient still progressing for the worse, the flooding considerable, treatment of a more determined character must be substituted. The greatest error is likely to arise from carrying the palliative means too far. The radical treatment consists, 1st, in not losing sight of a continuance of the palliative means as to outward circumstances. 2ndly. Dilating the os uteri. 3rdly. Friction over the uterine region, and 4thly, rupturing the membranes and comwith respect to the first position, in addition to the palliative means already given, cold applications to the uterine region should invariably be applied, to induce uterine contraction, together with horizontal position, or rather the head low, and the hips raised; acidulated drinks are recommended by some, they are not, however, of much service, and only tend to disorder the stomach.

Bleeding has been frequently resorted to; for my own part I never practised it, and should not certainly advise others to do what I consider msupported by proof as to its efficacy; enough of blood is generally already lost per vaginam, indeed too

the lancet cannot be reprobated in terms too strongly in such cases.

Second Position, Dilatation of the Or Uteri—When this step becomes necessary, it should be effected carefully, gradually, but constantly, and not at intervals as practised by some, under the idea of resting the patient; the object in view when deemed justifiable must be accomplished, and provided no undue severity be used. I cannot do better than recommend steady perseverance until the full amount of dilatation required is produced.

Third Position, Friction over the Uterine Region.— This species of manipulation tends to suppress the hæmorrhage, and assists materially in exciting uterine action, by which the dilatation of the os uteri is more easily accomplished. Simple, however, as this means may appear, the manner of applying friction properly is but little understood. It is not by the friction of the hand upon the parietes abdominis, but by grasping the integuments with the hand and rubbing them upon the uterine tumour beneath.

Fourth Position, Rupture of the Membranes and Completion of the Delivery .- However objectionable this may at first appear, there is no doubt but it is the most valuable and certain means at command for the suppression of hæmorrhage from the uterns. One of the principal arguments against rupturing the membranes is, the difficulty of turning the child. I admit it adds to the difficulties in cases where there is no hamorrhage, and turning is necessary, or where there is unusual delay in turning after the membranes are ruptured. But where hæmorrhage has previously existed, the same relaxation is present as is produced by venesection in cases of rigidity of the os uteri, in tedious labour. Thus rupturing the membranes in a case of hemorrhage, is not only proper, but in such cases there are less difficulties to encounter than is generally supposed, in the attempts to turn the child, from the relaxed state of the parts concerned, After rupturing the membranes, no time should be lost in introducing the hand steadily, and the child be delivered as speedily as can be effected, as well as the placenta. When the uterus is clear of its contents it ought to contract and the hamor-rhage ought to cease. The practitioner would ill discharge his duty if (in extracting the placenta he found the nterus not disposed to contract) he withdrew his hand until convinced the uterns had contracted. It is often necessary for the accoucheur to employ his other hand in friction over the uterine region, by which, as well as with the hand introduced, he may judge when the uterus is contracted sufficiently to be left safely. bandage should now be applied, the pressure of which should be particularly over the uterus, and if not sufficient without, a thick pad of linen (one or two napkins doubled into four) must be placed over the uterine region under the bandages,

(To be continued.)

PLACENTAL Source.-There are some cases where this sound is indistinct, or where it cannot be heard at all, though the patient be placed upon her back, with the knees drawn up, nothing covering the abdomen but the shift, no noise in the apartment to interfere with the auscultation, and the instrument be employed in the most proper manner. In some cases the uterine sound could not be heard, when the feetus could be felt distinctly kicking against the end of the stethoscope. It is necessary, also, to be aware that this sound may be heard in the abdomen of some women who have ovarian cysts and tumours of the uterus, and who are not pregnant. Dr. Montgomery relates a case of large fibrous tumour of the nterus, in which this sound was distinctly heard; and another in which the spleen was supposed to be enlarged, and in which this sound was audible. Dr. Hope has recorded cases of ovarian cysts in which the placental souffle was clearly heard, in the second edition of his work on the diseases of

COURSE OF LECTURES ON THE THEORY AND PRACTICE OF MEDICINE.

E. C. J. B. WILLIAMS, M.D. F.B.S., Professor of the Practice of Medicine, and of Clime of Medicine, at University College.

GENTLEMEN-We now proceed to the subject of the physical signs of the diseases of the chest and the respiratory organs, and the way in which these become indications of the condition of the organs of respiration. I have given a general outline of the mode of this investigation, and I have now to give by way of comparison, a very short view of the general symptoms, with reference to the relationof direct physical causes to the vital functions. Some of these vital functions we have considered in detail under the head of general pathology. What we are now going to consider belongs to the special pathology of diseases of the organs of respiration.

The first and most important disease connected with the respiratory function is that called dyspnea, or difficult breathing. It is here applied particularly to obvious difficulty in the performance of the function of breathing felt by the patient, or else obvious in the effects of disease in imperfect respiration on the system generally. As for instance, the patient has a feeling of dyspacea, or oppression, or some other disturbance in the system in reference to the chest; or else it may not manifest itself in that way, but, in some instances. the disorder is shewn in some other functions of the body: sometimes in a lividity of the face, and a general distriction of the veins, or sometimes in a general disorder of the cerebral functions, through which functions the proper act of respiration is interfered with. You have here a table constructed so as to give you some idea of the uncertainty o these symptoms:-

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You see from this diagram what a vast mumber of different diseases, not only of the lungs them hes. but of other parts of the body, may result from the disorder of dyspnoss. You see that dyspnosis thus very indefinite in it indications; that it may arise, not only from all those causes affecting the respiratory apparatus, in all sort of diseases of the lungs -not only internal diseases of the lungs for weakness, for in tance, will produce it, by affecting the motions of the class, or parily is of the muscles, or spasm from nervous causes, you see it may not only arise from our coaffecting specially the organs of respiration, but also from circum stances affecting the circulation, by which a feeling of dyspina a may be produced without any di order of the function of respiration, such as an obstruc-tion in the passage of the blood. So, lil ewise we find-

and it is a curious fact—that it will sometimes arise from certain conditions of the blood. The feeling of dyspnoa in its most distinctive form is dependent on the condition of the blood, or the blood being in a state not sufficiently purified by the air; and sometimes, it appears, that this condition of the blood may take place totally independent of any disease of the organs of respiration. For example, there may be such a thing as an excessively venous state of the blood. It is this which is exhibited where the blood is circulated with greater force from the heart under the influence of violent exertion. There is here a hurried and disturbed respiration without any disorder of the respiratory The too great liquidity, and a deficiency of the red particles in chlorosis, will produce dyspnea. Then, again, nervous respiration will be another mode of announcing the existence of dyspnea; accordingly in hysterical affections, more particularly, people will feel a want of breath more than usually; so that if there is any want of breath, if the quantity of an supplied is not sufficient, then the action of the respiratory organs will be affected, so that the patient is nearly suffocated. This arises from intense sensibility of the nerves of respiration, and there is apparent disorder of the breathing and a feeling of dyspnosa. Sometimes under the influence of this disorder the breath becomes oppressed, and there is a heaving and very slow action without the pa-tient feeling it at all. This is perceived in fevers and affections of the brain, and in nervous symptoms generally. Sometimes chemical causes have the effect in persons of contracted breadth of chest, of causing destruction of the respiratory function altogether, by a deficiency of oxygen. This arises sometimes from heated rooms, and may be more generally the case than we have been in the habit of considering. The breathing is diminished as a natural consequence of the deficiency of oxygen.

TIMES.

Now, although dyspnoa may be so very varied as a symptom, it is by no means a representative of the seriousness of diseases of the chest, as even it may be present when there is no disease of the chest; yet, if it is present, in connection with other signs, it is an important indication, and very often it is a measure of the inroad of disease on other organs. The real value, therefore, of a knowledge of the existence of dyspaca is this, that having made out by physical signs what di-sease there is occupying the respiratory organs. the dyspnora becomes a sign of the amount of disease, or of its increase or diminution. Dyspnoa alone, without a diagnosis of the nature of the discase, is very deficient. It may tell us very much with regard to the other symptoms.

The most intense dyspuca is that induced by sudden causes, such as spasmodic action, or a swelling of the glottis, or sudden effusion in the swening of the glottis, or sudden effusion in the bronchial tubes. Under these circumstances a convul ive kind of breathing tales place,— the feeling is overwhelming, and there is an expression in the countenance of great anxiety, almost amounting to despair: whilst the patient is strugeling for breath, the eyes become protruded, the nostrils distended and the posture constrained, as if every musele and every limb of the body were placed in the best possible attitude for taking in breath, to supply the want of the respiratory organs. Inder the e circumstances, it is remarkable how the pulse will vary; sometimes it best-very hard and strong, and at other times very weak and irregular, varying with the amount of extra blood, but not at any interval of time. The organs of respiration will be seen working in an irregular manner, and also disturbing the circulation, not only indirectly, by altering the quality of the blood, and by not altering and arterializing it in the proper way-but likewise mechanically, in the obstruction to the passage of the blood through the lungs. Then another thing important to be noticed is, that the muscles of respiration themselves, when violently exercised, tend to disturb the heart's action in a great degree; and conclines there will be a strong palpitation. and at other times a weak one. This is the case when dy pure a proceed, as it very frequently does, from milder cause. Now, on the other hand, where the dysphera is more gradual, the feeling of tage. Again, the question arises, is it powant of broath is much more acute. The scusi-supply the defective respiration by other

bility is, under some circumstances, gradually blunted by the circulation of imperfectly arterialized blood. This I shall have to notice under the head of Asphyxia. Under these circumstances, the dyspacea is no measure of the amount to which the breathing may be disordered; so, a fatal and insidious disease may go on to destroy the organs of respiration, and cause death, without the patient feeling to a great extent the symptoms of dyspnoa Even in a degree short of this, a permanent affection, such as that arising from emphysema of the lungs, habituates the system to the imperfect oxidation of the blood. Many persons, with this im perfect action of the lungs, are scarcely conscious Their breathing is always laboured; and i the blood were transferred to any other person, i would be sufficient to induce suffocation; but being habitmated to it, they do not feel it. these cases, persons have a large flow blood sent over their countenances, which would in dicate the approach of death in other person The veins too, are distended in a similar wa particularly those about the neck, at before their entrance into the thorax; and the arises from other causes, not only from the dif culty in the passage of the blood through the lungs, but also the difficulty in the passage of t blood into the chest. Thus, you have difficulty breathing, particularly when the expiration is prolonged, as it is in Emphysema. The pressure the lungs is greater here than it is under other c cumstances, and the return of the blood to the ch is impeded; bence you see persons suffering und a great degree of emphysema, with the veins of neck greatly distended. In fact we see, in t very condition, an illustration of what takes pl in dying animals. There is an enlargement the veins, which admits the accumulation of ven blood during the suspension of the respiratory This is one reason why some animals can ren Into its one reason why some animals can reaso long without air. Persons labouring under disorder may actually be said to be lowered in scale of creation, like cold-blooded animals; live and the cold-blooded animals. in a state of degradation, which would have l fatal if it had come on suddenly.

With regard to the treatment of the sympt of dyspnea, it is impossible to assimilate pracmatters with each step of our pathology, and can easily understand that it is not easy to scribe for dyspinea occurring as a symptom in various conditions in which it is seen in the gram I have given. The great object is, dyspucea is present, to find out the cause, prescribe for it in a great degree; but when cannot readily remove the cause, as in a ca obstruction of the air tubes by a tumour preon them, the object is to remove the symp for the time. Now, we cannot supply the ciency of blood, but we may diminish the w breath, or the want of supply of oxygen or a the blood. This want of breath is proport to the want of oxygen in the system: oxy more required where there is more exercise Ovygen is always wanted to keep up the h the system, consequently, if a person takes he will feel the want of oxygen - till more this becomes a certain indication,-when son is struggling for want of breath, and b the means of supplying it, to keep the surf the body as warm as possible. the functions of mitrition and assimilation, t conversion of the food into nonrishing t These, we know, depend on the activity respiratory process, and these processes car on effectually unless the respiration is co-We may lower it in some degree-may p it-by the influence of narcotics chiefly. will, in some degree, remove the feeling o nasa, and it is quite obvious, that in all c which these remedies have this effect, th have it not merely by relaxing the spasm minishing the sensibility, but that they, degree, lower the system, producing a which the respiration is not required to active. Accordingly, if we find these s difficult breathing quite permanent and u removed, sometimes narcotics, such as ether, and belladonna, will be applied with nasmuch as very little air is taken into the lungs, wing to the cause of dyspheca, is it possible to ender this air more pure? I think it not impro-able that some means will be found out by and bye, y which this difficulty in breathing will be much dereased; some such means as Dr.Payerne makes use f in the diving bell. At any rate there is one mode a which the quantity of oxygen may be increased. nd that is by taking care that the air that is sent o the lungs may be as cool as possible. Patients ften call out for cold air, and for the windows to e opened, and the relief given in this way is very ecided: under dyspucca, you will perceive, it beomes a great object to have the air as cold as posble, because it contains more oxygen and less urbonic acid than warm air does. As to the posbility of supplying oxygen in any way after the ings have abstracted all that they can, this is a nestion which experience hardly enables us to aswer. It has been recommended to apply oxyenated water, but I think that though this may, some stages of dyspuca, be productive of some lief, the amount of oxygen conveyed in that way very trifling. It is still quite open to experience, nd it is a question whether, by such a method, ilerate of potash and other matters, held in sotion, may not be smuggled in. I must advert to ne fact, that besides oxygenating the blood, there a simultaneous process required, that of decaronising the blood. It is highly probable that the ver assists in this decarbonising process, and sists in drawing off the earbon from the body; nd I have seen, in some cases of dyspucea, very eat relief derived from a great and sudden disarge of bile, and this, sometimes, under the intence of mercury, which may act in some degree purifying the blood. A feeling of want of reath has been adduced as a test of the want of tivity in the lungs, and it has been said to be proiced by a want of power in the chest and the orms of respiration. This may be ascertained by termining how long a person, after taking a full eath, can go without taking another breath; this most effectually done by counting, one, two, ree, and so on, and in a healthy person it may carried on for three quarters of a minute, and a diseased person, not for more than twenty sends. This depends upon the amount of inspiraon that can be taken by the actual capacity of the spiratory organs.

The next symptom to be adverted to is cough, nich becomes an indication of disease of the spiratory organs only so far as it is connected th the healthy or unhealthy condition of those gans. It may sometimes arise independently of y disease of the respiratory organs. Cough nsists of one or more abrupt and forcible exrations, accompanied by a contraction of the ottis, the traches, and other tubes. In fact, ugh is intended to effect the process of expectozion, and the discharge of foreign matters acnulated in the air tubes. The proximate cause cough, that which eauses the movements of the igh, is irritation of parts of the air tubes, re particularly the glottis and the trachea. The ttis is the chief seat of sensibility, and it is the itation of that which causes cough. It may be if to be dependent on sensibility, and it must be erred to a class of reflex functions depending on tation, of which the mind is not always conous. A cough may arise from irritation of, or pression on, the incident nerves, without the sitive nerves being conscious of being affected it. Many experiments have been tried to show t the glottis is the chief seat of irritation proing cough. Scratching the trachea has not n sufficient to produce cough, but immediately glottis was touched a cough ensued. es a violent cough will be produced by inflamion of the air tubes, and foreign bodies moving nt from one part to a more sensitive part, cause tation, and a fit of coughing comes on from that se. The same thing takes place in phthysis. It ell known that lying in a particular position cause a sense of tickling, so that the patient not lie in that position without a fit of coughing ing on. It is obvious that the sputa rolling one part to another will fall on a sensitive , so as to excite an act of coughing. The same by takes place in the early stages of bronchitis. the hooping-cough—and this occurs chiefly, but existence of lactate, or hippurate of urea,

Cough is excited in the natural mode by an irritant, causing increased sensibility, particularly in the upper parts of the air tubes. Sometimes the cough arises from an irritation more distant, such as inflammation of the diaphragm on the upper surface. If you ask a patient what is the cause of the cough, he will point to the trachea as the seat of the irritation; but it is reflected from the diaphragm, which is the seat of the irritation, to the spinal marrow: the action is altogether a reflex Diseases and foreign matters in the stomach

sometimes cause cough. Now cough, though often connected with diseases of the respiratory organs, sometimes may be produced by diseases of other organs, and are referable to the excito-motor function connected with those organs. But, in spite of all this, it is very important to study cough as a symptom, not only as helping us in some degree to discover the nature of the disease, but because it is an exceedingly troublesome symptom, and one that requires to be relieved in many cases before we can find out what the disease is; and when the disease is found out we sometimes cannot remove it. For this reason it is useful to discover some of the varieties of cough, and to study them. We may analyse a cough, just to understand what the nature of a cough is, although we cannot follow that analysis in the treatment. It arises often from a person swallowing something irritating which goes the wrong way. If it is a weak substance the irritation is slight, but if it is something stronger the irritation is greater. Again, it may vary according to the sensibility of the feeling of irritation. By the term sensibility I wish to include also that function which is impressed sometimes without any feeling—the function of the incident nerves transmitted to the spinal marrow. This reflex action varies in different individuals. It may vary according to the irritability of the muscles excited, and according to the violence of the motions of respiration. You remember that there are two sets of muscles concerned in the act of coughing; not only the external muscles of respiration, but also the muscles of the glottis and the air tubes. the closure of which is necessary to the performance of the act. When the glottis is not closed, and the act of coughing is violent, there is a tendency to vomit instead of to cough; the pressure in that case goes on to the stomach. Cough also depends on the state of the bronchial membrane and its secretion. The most common coughs we have are the hacking coughs, which are slight coughs, in which the different causes we have been mentioning are concerned. In the early stage of brouchitis it is very slight; when the bronchitis goes on, the cough is increased, for in that case the irritation becomes constant from the presence of tubercles in the upper part of the lung, causing an increased sensibility, and the cough is then brought on by exertion, or by heat, which sometimes increases the vascularity of the vessels, and the nervous properties of the parts. Even odours sometimes excite cough. This backing cough, without any other serious causes than those I have described, is chiefly to be treated by mild diaphoretics. Excessive irritability and mobility of the muscles concerned in coughing may be stated to be another cause of cough varying according to the irritability of the muscles excited. Now this gives rise to what is called convulsive cough, where the muscles of respiration are easily thrown into very violent action. This kind of cough is associated with nervous temperaments, or occurs in persons who exhibit a tendency to convulsive disease. Hooping cough is of a similar kind, but it is something more. This is to be treated chiefly by remedies which act on the reflex function in operating on the muscles affected by the excito-motor function, such as narcotis, stramonium, and hydrocyanic acid; -sometimes neryous tonies, such as oxide of zine and carbonate of iron. These are more useful in case of disease of the nervous system connected with the respiratory organs, than merely of the respiratory organs themselves. There is excessive irritability of the bronchial tubes and the glottis: but sometimes the irritation more particularly affects the glottis, or other tubes, during forcible inspira-tion, and causes the sonorous or back draught, or

not exclusively, in the convulsive cough of children: under these circumstances, the first remedy is more particularly a narcotic, stramonium or belladonna. The affection, here, is not only one of the external muscles, but there is spasm in the broughial muscles, and those of the glottis, during inspiration, so that they do not relax at the time of the inspiration, and there is violent expiration accompanying, and difficulty in the passage of the air. Then there is the hooping or shrieking cough, not unfrequent in hysterical females; it is one of a very remarkable character, more alarming than serious. This depends on the spasmodic contraction of the glottis during expiration, so that the glottis is kept in a state of vociferous contraction; in such a state, the air passing through it produces a noise—in fact, a voice; indeed, the act of coughing is accompanied by a hooping or a shrick, and in many cases this is exceedingly under the control of the individual, if she choose to exercise her power. The remedies, here, are anti-spasmodic, such as turpentine and assafætida, and other medicines of that nature. There is another state of the air-tubes, that of extreme relaxation, so that they do not contract; and the cough in these cases is a sort of halloa, with a great difficulty in expectoration. It causes chronic laryngeal diseases, sometimes, in nervous and hysterical subjects, and it occurs with a sort of paralysis of the muscles of the glottis. In nervous and hysterical persons, the best way of remedying the cough is, by particular means, to stimulate the muscles concerned in the affection. Electricity will sometimes cure a severe cough, when there is no particular irritation. Turpentine, in small doses, is particularly useful in this variety of

The character of the bronchial secretion modifies the cough in a very signal way; thus, for instance, we find a dry cough from a want of expectoration, and a moist cough from an excess of expectoration. The cough, being dry, depends on the deficiency of the expectoration, and usually on an inflammatory state of the bronchial tubes, and this may be opposed to the loose or fat cough, called so by the French. Now, these different varieties of cough may become the subject of special treatment; and, therefore, may be treated in various ways, according to the irritation, or the state of the membrane.

One word more, on the subject of cough connected with expectoration. This arises sometimes from bile, as well as from a diseased state of the or gans. Expectoration may be evidenced as a morbid act of respiration, or in connection with the matter expectorated. Now, the act of expectoration arises from various sources. The respiratory organs are naturally adapted for expectoration to take place. The trachea and the air-tubes, ramified, may be represented as a cone, the base of which is in the periphery of the lung, and the apex of which is at the glottis, and the division of the tubes are just of that description which favours the occurrence of the cough. The air is flowing upwards as well as downwards, and is very likely to promote the passage of the expectorated matter upwards.

HIPPURIC ACID IN URINE .- To detect the free hippuric acid after the administration of either benzoie or cinnamic acid, it is merely requisite to inspissate a portion of the urine by means of a steam bath, to boil the resulting extract with alcohol in vacuo, and allow a little of the clear supernatant liquid to evaporate spontaneously upon a slip of glass. In the course of some hours, characteristic crystals of hippuric acid, namely, quadrangular prisms, with dihedral summits, may be dis-This agrees tinguished with the microscope. This agrees with the recent researches of Pelouze, who has shown that urea may be present along with lactic, or hippuric acid, without entering into chemical combination with either of them; thus, demonstrating the fallacy of all the theories based upon the supposition of the

ROYAL MEDICAL AND CHIRURGICAL SOCIETY.

At a meeting of this Society, held March 14th, 1843, Edward Stanley, Esq., F.R.S., President, in the chair, the following papers were read:—

SOME ACCOUNT OF AN HYSTERICAL AFFECTION OF THE VOCAL APPARATUS-by Oscar M. P. Clayton, Esq.

The author prefaced the details of his paper, by drawing attention to the too frequent generalization of the treatment of hysterical affections, which he supposes chiefly to arise from hysterical disease being confounded with diseases occurring in an Lysterical diathesis.

The cases, 16 in number, occurred in two groups-the first beginning in February, 1841, accompanied by well-marked progressive symptoms
—the second in October last, in which the symptoms were clearly hysterical, and imitative from the first. They occurred in a charitable institution for the maintenance of female children, and those attacked were from 11 to 14 years of age. In February, 1841, seven of the children were attacked as follows:—with a short hacking cough. almost constant; much pain and distress in breathing; no expectoration; pulse quick, hot skin, tongue white, bowels costive. After two or three weeks, during which time these symptoms withstood all remedies applied, the cough changed to sounds varying in the different patients; in some, resembling the double action of a large saw, in another, a shrill screaming expiration, followed a quick, eatching, inspiratory effort; in another, the sound was like that produced by blowing into a small, metallic tube—in fact, it is difficult to conceive the dissonance and constancy of these sounds.

Besides these, one girl, aged 14, became affected with symptoms exactly resembling those of laryngitis, and requiring the usual means for their removal, but, after a week or two, the noise above alluded to supervened. In the commencement, sinapisms, blisters, expectorants, and nauseants were tried in various forms; and, subsequently, sedutives, alone, and conjoined with anti-spasmodies, without avail. When the anomalous sounds were established, a combination of hemlock, sulphate of iron, and quinine, was given, as well as full doses of sesqui-oxide of iron; these remedies. however, produced no cifect, till the children were separated from one another, when, with the exception of two, who were sent home, the patients slowly recovered. The two who were removed speedily recovered, although all required the longontinued exhibition of mineral tonics, to remove the very considerable debility that remained.

In the second group, commencing in October last, the double sounds—the inspiratory and expiratory-succeeded almost immediately on the hacking cough, and there were some catarrhal symptoms; on the whole, the hysterical character was well marked. A considerable number were now attacked, many of those who had formerly laboured under the same symptoms. Their torm became alarming to the neighbourhood. No remedial means-including turpentine, spiritus ammonia succinatus, anti-spasmodies, topics (mineral and vegetable), combined with the regular use of the shower-bath—being, after long continuance, lound of any use, the author determined to try the effect of mental influence; and following the example of the celebrated Böerhave, he assembled the children, and informed them that he should, with a red-hot instrument, bore the throats of all who were not well by the following morning. Their fright urged them to escape from the school on the next day, when they ran to their respective homes, and on being collected at the school on the day after, were all found to be well. Two of the elder girls did not escape, and in them the symptoms persisted; and in the others they returned in little more than a week. All other means failing, their throats were blistered with a spatula, heated in boiling water, and covered with a silk handkerchief. This, with some, succeeded-in two others, secluded from the rest, the affection gradually wore out; but two were at last sent to their homes, where, re-

moved from their noisy eompanions, they soon

Dr. Mayo observed, that imagination was affected very much by disease; but, as far as the application of it was concerned, it was of little use without some stimulus. Cold effusion he thought efficacious in some such cases as those stated in the paper just read. He thought the better word would be, sympathy, and not imagination.

CASE OF ERECTILE TISSUE IN THE POPLITEAL SPACE, AND ITS REMOVAL—by Robert Liston, Esq., F.R.S., Surgeon to University College Hospital.

The patient was a stout, healthy-looking lad, 10 years of age. He had a tumour on the right ham, of an oval shape, about 3½ inches in its long diameter, unattached to the skin, and unattended with pain. It had a doughy, elastic feel, giving a sensation, when the himb was extended, almost exactly resembling fluctuation, produced by deeply seated matter. When the limb was flaceid, this sensation was less perceptible, and it had more the feel of an elastic, solid fumour, which was moveable, and could be distinctly raised from the bone. The tumour first attracted attention when the patient was about two years of age. In the course of a year it had increased in size, so as to be nearly the size of a turkey's egg. Being punctured at this time, with a grooved needle, no fluid escaped. It slowly increased, without occasioning pain or inconvenience; and, three years ago, a surgeon passed a seton through it, which was withdrawn in a few days, when a discharge had been established. No benefit was gained by this proceeding, or by other means adopted to reduce its size. The operation for its removal was performed on Jan. 6th. An explorating puncture, with a bistoury, was first made into the centre of the tumour; this was followed by a profuse discharge of blood, and the swelling somewhat diminished in size. Its surface was next exposed, hy dividing the skin and fascia, and it was soon observed that it had the aspect of a fatty tumour, and was evidently much less in its dimensions than before the commencement of the operation. As the operation was proceeded with, the tumour continued to decrease in size. It was found that the substance of which it was composed was covered by the fibres of the semi-membranosus muscle, and to extirpate it, it was necessary to cut into the muscle. In the course of the operation the tumour had to be followed deeply into the popliteal space, and had to be dissected off from the nerve, and a good deal of blood was lost: only one vessel required ligature. The wound healed favourably, and the boy was able to walk about the ward on the tenth day from the operation. On making a section of the tumour, it was found to consist of a mass about the size of a hen's egg, of most perfect erectile tissue. On a microscopic examination, an appearance was visible like that of the musculi pertinati of the heart; the columns of the reticulated structure being covered with a smooth membrane, re-embling that lining the inner surface of veins. A preparation of the tumour was exhibited.

The author adds some observations on the cireumstances which were peculiar in this ease, directing the attention especially to the difficulties occasioned in the operation, by the tumour being covered on all sides by muscular fibres, and by the diminution which occurred in its size as he proceeded. He closes his remarks by offering the opinion that the turnour was developed in the substance of the muscle with which it was connected. Another case is appended, where the author removed a tumour of a different construction, from the side of the neck; and where he was of opinion that the morbid substance originated in the interior of the sterno-cleido mastoideus muscle,

A drawing of this tumour was shewn.

Mr. Lawrence thought this case was rightly stated, by the author of the paper, to be a rare instance of creetile tissue in the substance of the muscle. He recollected a similar tumour in the del-toid muscle, in a child three years of age. He saw the child after repeated efforts had been made to get rid of the tumour, and he recommended the removal

expose the tumour and easily detach it from t muscles; but, when he came to it, it appeared be really a part of the deltoid muscle itself, and could find no termination of it; and on procee ing further, he found the excision of the musc necessary to remove the tumour, which present a congeries of vascular ramifications. He, ho ever took it out, and when he had done so the was little to be seen: there was a large quanti of blood, and nothing else to be observed but mass of enlarged vessels, which, under the ski formed a considerable swelling, but, when expose became reduced to a very small bulk. Nothi further, remarkable, occurred in this case. T edges of the wound made were brought togethe uniting very well, and the cicatrix was perfect sound-and the child had continued well up to t present time. He then went on to observe that had met with something of a similar character the course of an operation where he undertook remove a large tumour from the ham of a patie 40 or 50 years of age. This tumour arose fro the patient sitting on some iron fastening or coach for a considerable time, during a lo journey. The tumour when he (Mr. Lawrence saw it had grown to a considerable size-leed and lotions, and other things, having failed to move it; and it was deeply seated in the ha tolerably loose, and moveable. He decided the there was no remedy but an operation to effect extirpatiou; and, as it was deeply seated, a considerable excision was required. On making the incision, he failed to discover the boundaries the tumour, which presented a congeries of vei from which the blood flowed in immense quanti Having failed in getting at the boundaries of tumour, he saw no other course to be adopted I that of closing the wound; and he intimated fears that the patient would not recover from t effects of the operation, as he was apprehsive that an oozing would take place from wound, which he did not expect would ele effectually. The patient, however, did recov although he had been brought to a very low sta armongh he had been brought to a very low sta from the extreme loss of blood that had tak place. All alarm subsided, but the wound w not quite healed: an opening took place in c part, and ultimately a much larger tumor curred in the same place, filling up the ham h up the thigh, and extending downwards to the le and all the inconveniences of the first tumonr curred. In this state of things, he expressed assent to an operation; the tumour, he thoug must necessarily be fatal if it remained, if it could be removed it might save his I The first attempt, however, was very disconraging The patient, however, decided upon submitting the operation, and it was performed. He (1) Lawrance) undertook the operation with gr anxiety: the swelling was very large, and doubted the possibility of cutting it away; ho ever, as the patient had placed his life in his han he determined to do the best he could. He for it necessary to make a very large incision high np the thigh, and down into the calf of the leg, spite of which, he found it almost impossible arrive at the boundaries of the swelling. cutting away a considerable portion of the swelli he at last removed it. Contrary to his expec tions, the patient recovered, and lived for the years atterwards, and might be considered as p fectly cured. The patient died at last from so internal disease.

of it. He divided the integuments, expecting

Mr. Liston mentioned the case of a tumour volving the popliteal nerve, in which three incl of the nerve was removed, the patient recoveri with merely the loss of power in the extremities

Mr. C. Hawkins related a case of a tume in the same position, in the removal of which, divided the vein, to which the tumour w The voin was tied, and the tumour: attached. moved without any more trouble: the patient s fered considerably at the time, but ultimate recovered.

Mr. Branshy Cooper mentioned the case of

fascia were cut through, and the tumour considerably diminished, but it was not removed. The edges of the incision were brought together, and in six years afterwards the tumour remained in statu quo. With these tumors that were thoroughly of erectile tissue, communicating with the popliteal nerve, however difficult it might be to remove them entirely, it was yet worthy of consideration, whether some means could not be adopted to reduce them so much in size as to hope for a favorable change,

The discussion was adjourned to the next

meeting.

SIR JAMES CLARK ON MEDICAL REFORM.

THE worthy baronet has favoured us with a copy of his second letter to Sir James Graham. We shall this week content ourselves with giving a few of the more important passages.

Our first extract will be on Medical Education the matter principally dwelt upon in this After shewing its importance, its necessity, the comparative want of it long exhibited, peculiarly by our own country—the writer thus perspicuously exhibits the absolute and relative positions occupied by the general practitioner, the surgeon, and physician, deducing from it a powerful argument for the necessity of interference.

Medical practitioners of all classes are now much better acquainted with the structure and functions of the living body in a state of health, and with the causes and nature of those changes which constitute disease; and they are also possessed of more resources in the treatment of disease, than were their predecessors at the commencement of the present century. The rate of improvement has not, however, been equal in the three classes of medical The apothecaries, who had most practitioners. to learn, have made greater advances in this respect than the physicians and surgeons; generally speaking, they may indeed be said to have risen from a state of comparative ignorance and inferiority, to emulate the latter in professional acquirements and to share with them the confidence of the public.

As a natural consequence of this state of things, a material change has taken place in the duties and relative position of the apothecary and of the other two classes. From being the humble individual whose duty it was implicitly to follow the directions of the physicians, and compound the drugs which he prescribed, the apothecary has gradually risen to be the ordinary medical attendant of the great bulk of the population; and, for the most part, he is now only required to summon the physician to his aid in cases of difficulty or danger. Such, at the present day, is the position of the apothecary, or, as is he now more appropriately styled, the general practitioner. The expectant mother during her pregnancy is under his direction; he conducts her through the often critical period of parturition, and her offspring from the moment of birth is his accustomed charge. Can a medical man have more important or more responsible duties confided to him? Ought any man to be intrusted with such duties who has not brought a well-instructed and disciplined mind to the study of a profession involving such vital interests? And it is the duty of the legislature to take care that no man shall be licensed to undertake these duties without having adduced proofs of being qualified to perform them? are questions which admit of being answered in one way only. Upon the skill and judgment of general practitioners depends mainly the health of the community; because they are, as we have seen, the ordinary attendants of the great body of the people, and the diseases of almost all ranks come under their care at their onset-the period be it observed, when disease is much more under the controll of efficient medical treatment than at any other: upon judicious management during the first few days—it may be hours—of an acute disease—depends very often the result of the case.

The relation of the apothecary to the surgeon bas been no less altered; and, as a consequence of this, the character of the surgeon's practice has undergone a remarkable change

Not many years have elapsed (some surgeons now living have, no doubt, witnessed the change) since surgeons of hospitals, and those who have been styled pure surgeons, were alone intrusted with the treatment of surgical diseases, and with the performance of all operations of any consequence. Patients with local disorders requiring operations were brought from great distances to London and other large towns where operating surgeons were only to be found. At present, on the contrary, general practitioners in the smaller towns, and even in villages over the whole country are frequently called on to perform the most important operations in surgery, in cases where the patient must lose his life were immediate assistance not procured. A considerable part of the practice of the surgeons, as well as of the physicians, has thus fallen into the hands of the general practitioner; and the result has been, that the surgeons finding themselves deprived of a large share of what they were accustomed to consider their legitimate right, now undertake the treatment of purely medical as well as surgical diseases; diftering in their practice from the general practititioners only in not attending to midwifery, and not supplying their patients with medicines.

From this exposition of the relative position and functions of the three different classes of medical practitioners, it will, I think, be admitted,—First, that the duties of the general practitioner are not the least onerous or important; and, secondly, that the professional duties of the three classes being essentially the same, so ought to be their medical education—up, at least, to that point which is considered sufficient to qualify for general practice.

He now disposes of the objections to the requirement of a good preliminary education, on the quality and quantity of which Sir James thus discourseth :-

It is self-evident that the preliminary instruction of the medical student ought to comprehend at least those branches of literature and science which are absolutely necessary to enable him to understand his professional studies. For this object he requires a certain amount of classical knowledge, in order to read professional books and understand professional terms; he must be familiar with the common rules of arithmetic, and he ought to know something of geometry, to enable him to make the most common calculations or measurements; with the principles of physics or natural philosophy he must be acquainted, to understand some of the most important functions of the living body, and the operation of the various natural agents with which we are constantly surrounded, and which exert an unceasing influence in the preservation of health and the production of disease. In like manner the principles of chemistry are necessary to prepare him for comprehending the more complicated processes of that vital chemistry which is continually in action in the living body. Chemistry has hitherto been considered, but improperly, a part of the medical curriculum. It is no more a branch of medicine than is physics. The student should be well instructed in the principles of both, before he commences his strictly professional studies. In the course of these he will have occasion to resume the study of chemistry in its higher departmentsits application to physiology, to pathology, and to therapeuties; but to enable him to do so, a knowledge of the principles of chemistry ought to form part of his elementary education.

The elements of botany should also form part of his preliminary instruction, and more especially the structure and functions of plants, as a preparation for entering on the study of the more complicated anatomy and physiology of animal Nor ought he to be ignorant of the other branches of natural history, of meteorology, zoology, and geology. Without some acquaintance with these sciences he could not understand or investigate some of the common causes of disease, or draw up the simplest medico-topo-

graphical account of any situation in which he might be placed; he would scarcely be qualified to perform the duties of a medical officer to a poor-law union. In addition to an acquaintance with these branches of natural knowledge, which I deem indispensable, he ought to know something of the Philosophy of Mind, to guide him in reasoning correctly, and exercising his judgment on the subjects and objects presented to his observation during the study and practice of his profession.

Such are the branches of knowledge with which every youth ought to be acquainted previously to his commencing the study of Medicine. Without such preliminary instruction, and the mental discipline which it implies - and which, be it observed, forms an important item in the list-I do not he situte to affirm that the student can never thoroughly understand medicine as a science or practise it as an art. with satisfaction either to himself, or full benefit to the public. Respecting the amount of acquirements to be exacted in each of the subjects enumerated, there is, no doubt, room for difference of opinion; but I regard the amount as of less consequence, in the first instance. Let the minimum fixed be very moderate, and the natural emulation of students and schools, and the daily increasing facilities for the acquisition of such knowledge will be the means of soon raising the standard of that minimum. It is hardly necessary to observe, that, however, small may be the amount of knowledge required, is ought to be sound as far as it goese not a smattering of the different subjects, but a knowledge of principles, upon which a superstructure may subsequently be reared.

On the present want of education, he says:

In proof of the almost total disregard of preliminary education, the following statement, recently made in a public lecture by Mr. Guthric, will be admitted as unquestionable evidence:- 'I regret to say," observes that gentleman, "that among the students who entered the profession some years back, and are only now presenting themselves for examination under the regulations of 1836, there are many who cannot spell very common words in their native language. ** Mr. Guthrie has been long on the Council of the Royal College of Surgeons, and, is, therefore, well acquainted with the acquirements of the candidates for the College diploma. What these were before 1836, Mr. Guthrie does not inform us; but such, it seems, is the deplorable state of ignorance of a portion of those permitted at the present day to pass the Royal College of Surgeons of London! Are men so educated worthy of being intrusted with the important duties attaching to the ordinary medical attendants of the community? Is it surprising that quackery and quacks should thrive, when such is the education of the regular practitioner? Natural talents and good sense may compensate, in some measure, for a defective education, and enable men to become good practitioners in a profession where so much depends upon the sagacity and powers of observation of the individual; but it is surely hazarding too much to permit men so ignorant as those described by Mr. Guthrie to undertake the responsible duties of a surgeon. Such a state of things ought not to exist in a civilised country, and would not have existed at the present day, had the institutions intrusted with the regulation of medical education done their duty,

On a grade of medical men, with inferior edueation, we have the following remaks:

If, in an evil hour for the character of the medical profession and the progress of medical science in this country, it should be decided to keep a sub-ordinate class of practitioners, required only to have a slender education, and to pass a slight examination-the amount of their education to be regulated, or at least tested, by the very bodies whose object seems to be to keep them in their present degraded position-I hope that a better educated class of general practitioners may also be recognised, and that some encouragement may be held out to induce medical students to prefer the

^{*} Clinical lecture delivered in Westminster Hospital, Oct. 15, 1842. - See Medical Times, Oct. 22, 1842.

Let their qualifications be such as to entitle them fairly to the degree of Bachelors of Medicine, and give them the right of becoming members of the corporate body or bodies of the profession, and at no distant period the former class will. I trust, disappear.

But I cannot believe, Sir, after you have been made acquainted with the responsible duties of the general practitioner, that you will recommend, or the legislature sanction, a scheme fraught with such injurious consequences to the profession, and

such injustice to the public,

I can easily believe that you are not a little per-plexed by the different opinions which you may receive on the education and position of the general practitioner; but there is one test by which you may safely try those opinions, namely, the mini-num education and the character of the man to whose care you would willingly trust your own family in a serious illness, when you could not call in the aid of the physician.

TO CORRESPONDENTS:

We shall next week give another extra Number, 72 quarto columns, for Ad.! It will be the first of our new volume, and will give the first Lecture of a Course by Professor Brands, of Her Majesty's Mint, F.R.S., L. and E., &c. &c., on the ull engrossing subject, Organic Chemistry.

A Friend.—The London deaths by typhus in the week ending March 11 were 55, in the preceding week 51. The weekly average during the last five years has been only 37. Scarlatina is about the yearly

A. B .- The election of members of the council : in no particular, deserving notice, changed by the new charter to the Pharmacentical Society.

A Constant Reader.—The omission was the

Quack Assassination.—The following atrocious case is extracted from the Coroner's minutes of evidence, kindly sent to us by Mr. Prankerd, surgeon of Langport, Samerset, a gentleman who deserves our highest thanks for the assistance he has before this, rendered us in unkerneling the unholy broad of men destroyers. Barvillard Card laboured under some taint apparently of syphilitic, or less probably scorbutic disease, which now showed itself, after an intermission of three years on his thighs and scretum. A quark doctor, named Corner, was consulted, and gave the accept, named Corner, was consumina, and gave in-poor fellow a lotion composed of arsenic and water, in the proportion, Corner says, of half an ounce to two quarts, with an order to drink a decoction, made of duck roots, and middle bark of clm. The lotion was up-plied to the parts abraded by the disease, the poison was taken into the system, and the usual symptoms in such n vase followed, viz. restlessness, aente pain, fainting ht, retching, content romitings, swellings, feet, delicium, death, When Mr. Tomkins, surgeon, san the decrared just before his death, the following were the symptoms. "On visiting the deceased I found him in bed, and in a dying state, his thighs swollen, the left particularly so, the serotum, the abdomen, the face and head were also much swoilen. I understood, from some of the family, deceased had been constantly romiting and purging for some hours. His tongue was very nearly black, and I also understood he had ters (e) a away mana, and r are numerstood an man experienced difficulty in swallowing. He was de-tirion, and incapable of answering any questions whally, everytwhen roused, his eyes were suffused, and I could not destinguish any pulse at the wrist. The jury found that it was from deceased's improper use of the lation that his death took place! I did the mischief is therefore at liberty. The westeh that

A Constant Read r cuils us eight queries or reference to the quis quid, grounds, quanto, &c., of Dr. Willis, which we have wither the power nor certainly the inclination to answer. As a matter of courtesy. we have ordered a copy of them to be forwarded to the worthy Doctor; and on his twice as to the expediency of a notice, our correspondent must depend for an answer

Mr. P. O'Brien .- We have received the note, and forward the fewench. The rule with London journals is to be paid in advance.

Mr. Kudkin unites to us in confirmation of Di Trusen's opinion on Croton oil in remedying hourseness. He has, however, now a patient, who

laboured under laryngeal and tracheal inflammation, on whom the oil was inefficient, and whom he sucecceded in relieving by a lotion made of

Argent Nit. 31. Aqua distil. 388. m.

applied to the tonsils and posterior part of the pharyns with a camel-hair pencil, night and marning.

A .- Mr. Wakley is as silent as the poisoned man on the subject of the inquest. We should be glad to see him publish the true minutes of the evulence.

We are obliged to decline the communications of J. A. — Argus — Philo-Mercator — A. Constant Reader, Bath-A Constant Reader, Finsbury-M. N. 11.—Physicus—M. D., Edinburgh. Others are under consideration.

THE MEDICAL TIMES.

SATURDAY, MARCH 25, 1843.

Proximorum non incuriosi, longinqua sectamur.

Tue medical profession in France is dependent for its present form and government principally on the law of the 19th Ventose, an XI. (10th March, 1803), the law of the 21st Germinal, an XI., with incidental enactments occurring since in laws or ordinances, having generally a wider

The first great maxim in French medical legislation is, that no man shall practice medicine, surgery, or pharmacy, unless he can shew a strict legal title. The divisions we remarked in Germany, exist in less extent, and in greater uniformity, in We have Doctors (1) both of France. Surgery and Medicine—(2) of either-(3) Officiérs de Santé. Mr. Lec, in his useful and elegantly written work on Foreign Medical Institutions, has given so good a summary of the education and standing of these different grades, that we cannot do better than submit it in lieu of as many remarks of our own.

There are in France three Facultes de Medecine, viz. at Paris, Strasbourg, and Montpellier; the two latter being much inferior, as schools, to the former, so that many of those who have there taken their degree, are not satisfied unless they likewise possess a Paris diploma. At most of the large provincial towns there are also secondary schools formedicine, where lectures on the various branches of the science are delivered, as preparatory to those which the students resident in these towns have subsequently to follow when they come to pursue their studies in the metropolis, or at either of the other Faculties. An inferior grade of practitioners, termed officiers de sante, who are restricted to practise in the smaller towns and villages, attend for the most part the courses of in-struction at the secondary schools; and after haying lived for six years with a Doctour on Chirurgie, or attended hospital practice during five years, they are eligible to undergo the examinations which authorize them to exercise their profession, viz. an examination on anatomy; one on the elements of medicine, and one on surgery and on pharmacy. The whole expense attending these examinations does not exceed two hundred frames. Officiers de sante are prohibited the performance of important operations. No persons, with the above excep-tion, are allowed to practise in France unless they possess a diploma of a doctor of inclicine, or doctor of surgery, from one of the faculties. Candidates for the diploma are required to have studied four years, during which period they have to take out an inscription every three months for attend-

* English medical men in France are, however, allowed to practise among their own countrymen.

ance on the lectures and hospitals. Members of foreign colleges and universities may, however, present themselves for examination after two years study in Paris. The scholar year begins on the study in Faris. The scholar year begins on the first of November, and terminates on the thirty-first of August. The expense of the course of study required for making a degree does not execcel a thousand frames, $(\tilde{\mathcal{L}}40)$.

The following is the prescribed order of study First half year—Anatomy, Physiology, Chemistry. Second—Medical Physics, Hygiene, Medical Natural History. Third—Anatomy, Physiology, Operative Surgery. Fourth—Hygiene, Medical Pathology, Pharmacy. Fifth—Operative Surgery, Medical and Surgical Pathology. Sixth—Clinical Medicine, Clinical Surgery, Materia Medica. Seventh—Clinical Medicine, Clinical Surgery, Medical Pathology. Eighth—Medical Jurisprudence, Therapeuties, Obstetricity.

The examinations for the diploma are made publicly, and are five in number. The first takes place after the fourth inscription has been taken out; the second, after the twelfth inscription: the other three take place at the termination of the course of study. An examination lasts two hours; four candidates being questioned at a time by three examiners. Each examiner receives a salary of six thousand francs per annum. The examination fees are likewise divided amongst them-these amount to one hundred and fifty francs for each candidate.

The subjects of the first examination are, Natural History, Physics, Medical Chemistry, Pharma- Of the second, Anatomy and Physiology Third—General Pathology, Medical and Surgical Pathology. Fourth, Medical Jurisprudence, Hygiene, Materia Medica and Therapeuties. Filth. Clinical Medicine and Surgery, Operative Surgery,

and Obstetricity.

For the anatomical examination, the candidate is required to dissect and prepare a part of the body which is indicated to him on the same morning, and to answer the questions proposed to him relative to the preparation. Candidates have also to write and defend a thesis on some points of medicine or surgery. The clinical examinations medicine or surgery. The clinical examinations take place in the clinical hospital at the bedside of parients.

As minor points, it may be added to Mr. Lee's statement, that "the clinical examinations" refer to external or internal lesions, accordingly as the candidate seeks a surgical or medical diploma,-that all medical men, with diplomas received before 1803, are not interfered with in their former privileges by subsequent legislation, -that the Government can, by law, empower foreign Surgeons or Physicians, "Graduates of a University," to practice n France,-that the Officiers de Santé are exempted, both from hospital practice, during the five years, or from attendance on Surgeons' or Physicians' practice six years, on passing three consecutive years at one of the Schools of Medicine,-that they are examined in the chief town of their department, by a jury composed of two resident Doctors, and a President chosen by Government from one of the State Schools of Medicine, -- and that they cannot practice out of their own departments.

REGISTRATION,-The Doctor or Officier is bound, within a month of settling in practice, to present his diploma to the Government officers (the one a legal, the other a state employé) at the town where he establishes himself: two lists are thence made up once a year by the Commissaries and Prefects-and presented, the one to the "Minister of Justice," the other to the "Minister of the Interior."

Persons acting illegally as Doctors, may be fined a thousand francs, and five hundred if falsely pretending to be Officiérs de Santé. An unlicensed midwife subjects herself to a fine of a hundred frames.

In another number we may make known the French law in regard to patent or quack medicines.

Nam deteriores omnes simus licentia.

We extract the following observations on the autopsy of the late Richard Carlile, from the last number of our able contemporary, the Carlow Scatinel:-

The moralist and the Christian cannot entertain any other but feelings of abhorrence and disgust at the fearful prevalence among humanity-mongers and modern philosophers of that morbid sympathy for great criminals whose hands have been either uplifted against the law of the land or against the commands of the Almighty. Hence the lock of hair of such a cut-throat as Courvoiser, is eagerly sought for as a precious relie by some sentimental young lady. There are not a few who now admire the "manly consistency" and the "fortitude" of a miserable "atheist;" and some popularityhunting anatomical lecturer in London, named Grainger, delivered something between a funeral oration and a lecture "to a crowded audience" over the mortal remains of this " victim to prejudice . whose opinions are oracularly said to be "deli-berately formed," and his "convictions sincere," from such peculiar conformation of the system, and a long dissertation follows on the cerebral development to prove the dogmatical assumptions of the learned lecturer. These exhibitions inflict deep injury on the public morals, without contributing much to the advancement of medical science; and it is to be hoped that such influential and respectable journals as the London Medical Times will exert itself to prevent the delivery of those funeral orations over the bodies of such enemies of social order, eivilization, and Christianity as the notorious Richard Carlile.

Though, by the special request of the authorities of St. Thomas's Hospital, we were made the channel of publication for Dr. T. Williams's able paper on the physical conformation of the person, so strongly consured by The Sentinel we forbore at the time expressing any opinion of our own, as to the conduct of either the donors or recipients of the singular bequest. reason was, that, apart from whatever utility science might extract from an anatomical examination of the corpse-as a corpse-there was nothing in the death of the individual, or in his character generally, that required, especially from a medical journalist, a moment's public notice. In Mr. Carlile's uncleanly, unwholesome, publie displays against not more the religion than the good taste of the country-we never saw anything but the characteristics of a semi-madman; and the fact announced by Dr. T. Williams, that the distinct remains of prior disease were found in the substance of his brain-disease evidently, from the statement, of no recent originthis fact goes far to justify the charity which would consider him to have wanted, at times, a satisfactory controul over his actions. So truly low, therefore, in the world of intellectuality, so much below anything but our fraternal pity as a public character, we cannot-if, thus called on, we may express as brief an opinion as the nefous relates the case of a patient affected but when the patient was getting the better of

case warrants—but hold that the bequest of his body was not one of those events which would justify its being anxiously made the means of inviting the greatest possible amount of notoriety to the institution receiving it. While no prudishness on the one hand, blinds us to the meddling absurdity of the well-meaning governors, who thought it necessary to announce, publicly, that the cutting up of the body by their employé, Mr. Grainger, was not to be considered as their assent to their unfortunate legacy's former religious tenets -we must yet feel that no reason can be suggested why Mr. Grainger's promissory note for the autopsy should have been carefully made known to the entire public press; and the whole world, which had hitherto thought Mr. Carlile a very insignificant personage, have been startled by the announcement of the coming post-mortem examination as an event of at least regal importance. We wish we could impress scientific men more strongly with the truth, that true science shrinks from vulgar contamination, and if she courts light, certainly does not court it through notoricty.

EXTRACTS FROM FOREIGN JOURNALS.

(For the Medical Times.)

FRENCH - Observations on some Discuses peculiar to the Membrana Decidua. By M. Devilliers.-The following are the conclusions at which M. D. has arrived on this interesting subject :-

The state of congestion, and of inflammation of the uterus, may be propagated to the membrana decidua and there determine the effects of inflammation, sanguineous engorgement, effusion of blood, and the formation of matter. The deciduous membrane may not only take part in the various congestions attacking the uterus, but it may also become the seat of diseased conditions, the ordinary result of inflammation. Moderate congestion taking place in a part or the whole of the membrana decidna is not always immediately hurtful to the existence of the ovum. It may be merely temporary, and disappear of its own accord, or under the influence of a prompt and vigorous treatment. Sanguincous effusion into the membrana decidua is a much more frequent disease, and this frequency seems to depend on the slight resistance presented by the parietes of the adventitious vessels. If the effusion be considerable, it may occupy not only the substance of this membrane and its cavity, but also rupture the other membranes and penetrate into their interior. Hypertrophy of a part of the membranes, which takes place after the death of the feetus, and which gives rise to the mass denominated a mole, may also be considered as a product of disease of the decidnous membrane. Congestion and effusion of the deciduous membrane are most frequent during the early weeks of gestation, a fact which is explained by the close connection which it has, at this period, with the uterus. Finally, diseases of the membrana decidua are more common causes of abortion than is generally supposed. We have but carefully to examine the ova, expelled during the early weeks, to be convinced that, very frequently, the chief alterations are effected in this adventitious membrane.

Diabetes Mellitus successfully treated by Animal Regimen and Glutinous Bread .- M. Bon-

with this disease, who came under his four months after its first appearance. then voided daily two pailfuls and a half of urine, containing seventy grammes of sugar in 1,000 of the water. He was for two months subjected to the following treatment; a flannel covering was applied next the skin; as much animal food as he could take; and, after a short time, the common bread was substituted by that prepared with gluten, which was given ad libitum; some Bordeaux wine was also daily administered. The quantity of urine gradually diminished. The sugar completely disappeared from this liquid, and, in three months and a half, the patient left the hospital, apparently cured.

On Eczema and the Cutaneous Eruptions accompanying Teething. - M. Trousseau treats these obstinate affections, when spread over the body, with great success by means of mercurial baths. The following is the formula which he usually adopts for children; corrosive sublimate, sal ammoniac, of each from two to five grammes (half a drachm to a drachm and a half) to be mixed in a sufficient quantity of water to form a bath. In the adult he employs fifteen grammes of each. These baths, which exert so beneficial an influence in the treatment of all cutaneous diseases, especially in eczema and the chronic forms of impetigo, produce none of the bad effects attending mercurial absorption, and this, although the baths be administered daily, for one or two months. For the tooth-rash, which most usually shows itself under the form of chronic eczema, ointments made with red precipitate or calomel, in the proportion of one part to ten or fifteen of lard, produce a rapid improvement in the local state, and generally a perfect cure. In that form of milk-blotch attacking the face and hairy scalp, and which usually shows itself in pustules and impetiginous ulcerations, poultiees should be applied to remove the crusts, and the hair should be cropped quite close, before applying the mercurial ointment, which must be continued as long as the disease shows itself.

M. Trousseau is, however, far from advocating the immediate cure of all chronic cutaneous affections, or even of all acute diseases of the skin occurring in children or robust individuals. The milk-blotch, for instance, in children often succeeds to a general indisposition, of which it seems to be the cause; it is characterized, either by an erythematous eruption, by eczema, or by impetiginous pustules. We must then, if not favour the original eruption, at least do nothing to cheek it; but as soon as the fever ceases, or the disease assumes a chronic form, we need no longer hesitate to attack an affection so liable to extend over the surrounding parts. When the cure is nearly complete, he generally applies a blister to the arm, and exhibits an occasional dose of purgative medicine.

Gangrene of the Vaginal Mucous Membrane caused by the administration of Ergot of Ryc. -Case.-A female, about 40 years of age, affected with eancer of the neek of the uterus, which had destroyed a large part of this organ, being reduced to the last stage of marasmus by a sero-purulent and sanguineous discharge, was ordered the employment of catechu, combined with ergot of rye, the latter in the dose of one scruple to half a drachm in the twentyfour hours, and injections of carrot-juice, to which was added a little alum. Having used about three drachms of the ergot, she was seized with violent vomitings, and the whole vaginal mucous membrane was discovered to be in a state of gangrene. On holding apart the labia, this membrane was found of a dark slate colour, emitting the characteristic odour. In the course of eight or ten days it separated;

this attack, the hæmorrhage recurred as before and proved fatal. - Gaz. Med.

M. Amussat in a paper on the prolonged and graduated taxis, or the reduction of strangulated hernia by the united means of the surgeon and of one or more assistants, deduces the following conclusions: -1st. The ordinary taxis is insufficient; in many cases, it requires a more sustained and greater force than that of a single operator, because the resistance to be overcome is too great, and the powers of the surgeon are too soon exhausted. 2nd. To act effectually when the operator alone is insufficient, we must associate the aid of one or more assistants, as in luxations, fractures &c , so as to prolong and graduate the taxis suitably and present some chances of success. 3rd. The process which he prefers consists (having first placed the patient upon some resistant body) in embracing the tumour, circumscribing it lengthwise instead of flattening it, and compressing its base perpendicularly to the ring, with two, four, or six hands at the same time. 4th. The results obtained by this proceeding, he states, to be very satisfactory; and he considers them of sufficient weight to induce a change in the established practice, that is to say, that instead of operating speedily as generally advised, we ought to prolong the employment of the taxis in the above method; a plan which he thinks will be attended with great success. 5th. That to be enabled to treat these diseases properly, we must study the surgical and pathological anatomy of the parts, and make ourselves in every way acquainted with the subject.

Artificial formation of a new Urethra .- M. Ricord presented lately to the Academy of Medicine a patient on whom he had performed the above operation, in consequence of the urethral eanal having been completely destroyed by a phagedenic chancre, throughout the whole extent of its spongy region. The greater part of the skin of the penis had also been destroyed, and two-thirds of the circumference of the corpora cavernosa, as well as the longitudinal groove marking the course of the urethra, were covered with a thin tissue of cicatrix, urine escaped below from an opening situated in a deep fold of the skin of the scrotum. To remedy this condition, M. Ricord suggested the formation of a new canal between the corpora eavernosa and the cicatrized tissue surrounding them. For this purpose, he employed a trocar-shaped instrument, somewhat flattened, and terminating in a lancet point. The instrument was first introduced by the meatus urinarius, and towards the middle of the glandular region its point penetrated into the cellular tissue surrounding the corpora cavernosa. In this progress, M. Ricord divided the external fold, until meeting with the gorget previously introduced into the opening through which the urine escaped. The artificial canal thus commencing at the centre of the glandular region was made to rejoin the portion of the methra corresponding to the scrotum, at the distance of one centimeter and a half beyond its external opening. After this operation, which gave no great pain to the patient, a silver canula was introduced in the place of the perforating instrument, and two hours afterwards the urine escaped freely by this new passage. Compresses dipped in cold water were the only dressings applied to the wound. Very little swelling or inflammatory action occurred. The canula was replaced on the fifth day by a gumelastic catheter, and since the 27th January, the day of the operation, the size of the catheters has been gradually increased so as to give this new canal a suitable diameter.

Overath, - A woman, aged 30, of small but strong frame, and apparently regularly formed, had been already delivered three times by "perforation." Labour commenced this time on the 12th of August; the waters came away the same evening, pains very weak. In spite of the admonitions of the midwife to call in an accoucheur, the woman, by the advice of a neighbour, endeavoured to expel the child naturally by forcing down with the pains. On the t4th Dr. Klein, of Siegburg, was with the woman at ten o'clock, and, after vain efforts with the forceps, declared that help could only be expected from the cæsarean section. The woman, however, continued to hear down; at mid-day the pains were violent, and she suffered much. Dr. Klein was again present about the next mid-day. She would not hear of the operation. To mitigate the violent pain, Dr Klein gave some doses of tine, opii., but without relief. According to the woman's account, the violent pains had continued for twenty-four hours; when I arrived about four o'clock P.M. she suffered frightful pains, she screamed for help, and wring her hands uneeasingly. At length, whilst I tried to examine the abdomen with the hand laid flat, her voice suddenly failed, and she could only whisper. The uterus was firmly contracted round the child's body; on touching the left half of the abdomen she appeared to suffer great pain.-Internal Examination :- First position of the occiput, the head partly pressed down into the upper aperture of the pelvis, immoveable, even during the pains; the promontorium not to be reached. The woman had not for many hours felt the motion of the child, yet, by means of the stethoscope, the heart beats-of the child were clearly perceived; less clearly the placenta-bruit. The strength of the woman was pretty good. I agreed with Dr. Klein, as to the necessity of the cæsarean section, and, with the consent of the woman, performed it in the direction of the linea alba, while Dr. Klein with his hands defended the bowels from accidents, without meeting with any greater impediment than a part of the edge of the placenta falling in the direction of the wound, which was quickly cut through upon the fluger. The right arm instantly projected into the wound; I, however, held it back, and not without some trouble extricated with the right hand the fast fixed head of the child, when the whole body immediately followed. The funis whole body immediately followed. was twice wound round the child's neek (a strongly formed female); after taking it away and sprinkling it with cold water, it cried aloud, and moved itself in a living manner. The funis was tied, and the placenta, with the membranes, taken away through the wound. Duration of the operation and the application of bandages, one quarter of an hour. Little hæmorrhage; little pain. The woman was as well as before the operation, the pain of which was not to be compared with the overpowering labour pains, while the section produced only the feel of a light burning. August 16. The abdomen much swollen, painful to the touch; the windings of the inflated colou could be clearly followed by the finger; loud bor-borygmi, scareely a trace of fever. By the use of a suppositorium very much flatus passed away, and the entire disappearance of pain. Henceforward all the functions regular, without the least disturbance. Elect, lenitiv, was only once given, on account of costiveness. She suckled her child herself, and her recovery proceeded so rapidly that after four weeks she was able to perform light house-work; after the first four days she sewed some articles she

days later she was able to milk her cow and perform other usual labours. At this time she is in good health.

REVIEWS.

A Treatise on the Enlarged Tonsil and Elongated Uvula, in connection with defects of Voice, Speech, and Hearing, &c. &c. By James Yearsley, M.R.C.S. London, 1842.

WE must confess that we came to the examination of the book before us with no great predilection in favour of its anthor, yet it is but justice to state that the work is not without cleverness, and that it even displays some little novelty of practice. The effects of enlargement of the tonsils and uvula, are truly described in clear and forcible language, and were there not a too frequent and obvious aiming at popular effect, we think the treatise before us would have been of more benefit to the profession than it is ever likely to be. The author has made some just remarks on the effects of morbid condition of the throat on the organ of hearing, and glanced at the treatment of tonsilar and uvular enlargements. In the topical and constitutional treatment of these affections there is nothing new. The excision of the enlarged tonsil is also effected in the usual way if we except the modified form of the knife which cannot but be useful. In excising the uvula, the author reprobates the practice of removing only a pert of that body, and justly recommends its total removal. This we consider the most important practical enunciation in the book and merits commendation. For obstructions of the nose the author recommends the use of an elastic probe or bougie, and for the removal of mucus from the orifice of the Eustachian tube, as well as for washing and clean«ing ulcerations of the throat, an apparatus is recommended consisting of an elastic bag for holding the fluid to be injected and an elastic tube to convey the fluid along the floor of the nostril to the seat of the ailment. We have no doubt that both instruments will occasionally be found useful, but how the elastic probe can act beneficially in dilating congenital contractions of the nostril we are at a loss to discover. When the contraction arises from a thickening of the nucous membrane of the passages, dilating instruments will undoubtedly prove useful, but what effect can the introduction of such instruments have upon the bone? Obviously none, and in congenital contraction, the bone is always at fault. We place, therefore, no reliance whatever on the following announcement.

" There are eases, however, in which the nostrils and nasal canals are congenitally of small size, where the clastic probe, or any instrument capable of gradually dilating them, will be very beneficial. Of this kind was the case of a nobleman whose nares were so small that the passage of the Eustachian catheter, in Paris, by Deleau, (a very experienced operator,) occasioned much pain, but the careful performance of the same operation in this country, by means of a catheter of small size, which I had made expressly, afforded his lordship considerable relief, as far as the nasal obstruction from which he suffered was concerned.

On Gravel, Calculus, and Gout &v. By 11. Bence Jones, M.A., Cantab, &c. &c.

THE failure, for the most part of endeavours, to unravel the proximate causes of disease, and the utter inability of forming satisfactory theories for the action of some of our most valuable remedies, are causes which have tended not a little to humble the pride of the philosopher, and to teach him how limited are his powers of investigation when employed to unravel the German.—Casarean Section, with Recovery was in want of for the child,—for she had cal-of Mother and Child. By Dr. Ringeno, of culated only on having a dead child; some are so difficult to establish, or to disprove, as those connected with medicine, hence the wild doctrines which ever and anon disfigure this beautiful science. Perhaps no set of men have proposed doctrines so wild, so devoid of all the elements necessary to ensure truth, and undertaken in such a spirit of unbecoming arrogance as the chemical pathologists. It will not be forgotten for some little time how cinchona bark was presumed to contain gelatine, because it happened to precipitate infusion of gall nuts, and how gelatine was forthwith introduced as a substitute for einchona bark, and how many and wonderful were the cures which this gelatine effected in ague! After considering this, and some other parallel cases, it cannot be wondered at that "chemical practitioners" are treated with much distrust. Be it so, the circumstance is fortunate for them, and for the world; the chemists have a character to restore, and will restore it.

Of all diseases to which man is heir, those of gout, and calculus, are most strictly chemical, and may be supposed to be capable of alleviation in proportion as the circumstances which regulate their development are more clearly understood. It has long been known that an excess of urie acid in the system was an universal eoncomitant, and, therefore, the probable cause of gout, and the alkaline treatment of this disease has been vindicated in chemical principles. In no disease has the necessity for dietic measures been more obvious than in gout, although the regulation of this, hitherto, has been a matter of empiricism. From the immense strides which organic chemistry has lately made, we are now in a position to learn by reference to symbols what ingesta are most ealenlated to produce this urie acid, and the contrary, what measures are most likely to effect its decomposition. All this the author has most elaborately explained. Although he merely professes to elucidate the theories of his friend, and chemical instructor, Liebig, yet the treatise bears evidence of his own thorough knowledge of the subject. Perhaps to the medieal public, the book would have been more useful had it been less profusely supplied with formulæ, the general tendency of which is to the effect that insoluble uric acid is converted by a full quantity of oxygen into earbonic acid, and urea, by a smaller quantity into oxalie acid and urea, that consequently our object should be to promote oxydation.

Gout, belonging as it does to the uric acid diathesis, occupies a large portion of the author's attention, the oxalic and phosphatic diatheses are also treated of. The presence of the former is also shown to depend upon the action of oxygen in urie acid. "In the oxalic acid diathesis, the oxydising process in the body is carried on a step further than it is when the uric acid diathesis exists, but it is still stopped short of the extent to which it is carried in the state of health."

It is in the oxalic acid diathesis that chemistry throws its greatest light, and prompts us to a mode of successful practice. Now, it is known, that oxalic acid results from the pric, and, therefore, the treatment in both cases should be the same. This has not, hitherto, been the case, for the presumed source of oxalic acid was thought to be decomposing sugar, a substance on which, therefore, an interdict was laid.

Chemistry does not suggest any new treatment in the phosphatic diathesis, but illustrates very satisfactorily the process by which such depositions occur. The two sources of phosphoric acid in the blood, are 1st. from the food, 2nd, from the oxydation of the phosphorus in the tissues. A portion of this phosphoric acid, in combination with lime, and magnesia, findsits

way into the urine, where the phosphates are held in solution by free acids always present in healthy urine, when, from any eause, however, those acids are neutralized, or absent, a phosphatic deposition occurs.

The portion of the treatise on calculus is a condensed abstract, and professes to be no more. The whole book is written in a spirit of true philosophy, and we cordially recommend it.

THE PHRENOLOGICAL SOCIETY.

AT a meeting of the members of the London Phrenological Society, on Monday evening, Dr. Elliotson, the president of that body, delivered to an audience, consisting principally of ladies, an address on "the plea of insanity." He commenced by referring to the universal disappointment, particularly manifested by the female sex, that M'Naughten, the assassin of Mr. Drummond, was not hanged for the horrible deed he committed. Calm thought, however, impressed us with the conviction that, if he had been hanged, it would have been a deed of cruelty, for M'Naughten being insane, of which there could not be a doubt, was not an accountable being. What was meant by "an insane person?" A person in his senses appreciated, and was expected to act according to, motives, but even here great allowances were to be made. The usages of the nation, to which he belonged, were to be taken into account; the morality, the received code of morality of that nation, presenting good or bad motives, might, or might not, relieve a man of the responsibility of a criminal act. Now, what was meant by saying that an individual was mad? The reply, which he, (Dr. Elliotson) gave, was either that he could not appreciate circumstances, or was completely under a delusion, mistaking things completely without any fault of education, not through accidental habits. This was the view of insanity given by Gall, who considered insanity to be of two kinds, where there was a delusion, such as frequently occurred in states of hypochondriasis, and where persons did things which were wrongful in spite of themselves. There were instances of persons who committed murders and robberies, without any motive, but from the force of some irresistible delusion; other persons who fancied they were called upon to do certain things, and that they were to be raised to some high situation; and that they were kings and emperors; and, even, in some cases, to believe that they were the Almighty. In all these cases some feeling or faculty of the mind was diseased. It was important to know that there might be cases of this description without any delusion. Persons acting under delusions, or impulses, knew that these impulses were wrong, and it was often incorrect to say, that a maniac did not know the consequences of certain actions, that they were wrong in law and punishable. There were many cases of persons who had committed murder, and had, beforehand, "hoped, to God, they should not do it," and entreated their friends to bind them down, and restrain them from doing what they felt they would, otherwise, be irresistibly impelled to do. facts were important to be noticed at the present time, because persons were said to be punishable if they knew that they were doing wrong; nay, that they were acting in opposition to the law. It was an unquestionable a et that many insane persons knew they were doing wrong, but were unable to resist the impulse. He could only account for this apparent anomaly by supposing that there was an exceedingly rapidalternating action of the brain. It was not, he said, true to say, that if a maniae and society would be secure.

knew he had done wrong, or purposed doing wrong, that it was a circumstance rendering him deserving of punishment; he might know all the time that he was doing wrong, and yet be unable to resist it. It often happened that madmen were favoured with talent, and extreme sagacity, on many points. Sometimes it was said that a person could not commit crime from inadequate motives, but it was quite impossible in many cases to discover any motive whatever for the crime of a madmen; the impulse in such a case appeared to come on inevitably, nnexpeetedly and to overwhelm him. There could be no doubt about ascribing a crime so committed to insanity, many circumstances, blows, and other injuries, producing nervous disturl/ance, might lead people otherwise sane, to commit insane acts, and, therefore, he could not subscribe to the opinion that if madmen were capable of knowing what they were doing they ought to be punished like sane people. Now the fact was well known that madmen were capable of being influenced by motives as well as other people, and this principle was acted upon in madhouses by a system of encouragements and deprivations. But insane people were only accessible to these influences within a certain range. The conclusion derived from the fact of madmen being thus influenced within confinement, was that they were equally accessible to the influence of the fear of punishment out of confinement, and while there were so many mad people about, the question arose what punishment should be established for their crimes. He thought the same rules should be followed as were adopted in lunatic asylums, where everything was conducted without cruelty, and upon the most benevolent principles. As no madman would be tortured under confinement, so no madman out of confinement should be subjected to corporal punishment. Society had a right to protect itself from the crimes of madmen, and it ought to do it by holding out the same punishments that operated in lunatic asylums. As to the question of hanging, insanity was of such various degrees that it was hardly possible to say whether a person was a lunatic or not. He was opposed to capital punishments in any ease, and he conceived there was now a means of getting rid of the difficulty raised of late as to the wisdom of capital punishments, in admitting the plea of insanity, and punishing, sane as well as insane criminals, with continement tor life Society in all cases of crime had only flie right, with respect to the criminal, which a mother had with regard to her child, that of punishing it by way of correction and example. All our actions were the result of our internal frame, acted on by external circumstances, and, therefore, if an individual under the influence of some morbid disease committed a crime, it was wrong to think ill of him although it was proper to condemn his actions; therefore, punishment ought not to be inflicted with the object of giving the individual pain, but of applying motives to that individual and others to avoid that which was criminal and wrong. The punishment he would substitute for capital punishment would be confinement for life in a lunatic asylum without reserve; it would be hard upon the individual if he ever came to his senses, but society had a right to protect itself by holding out this punishment to others, and also of protecting itself in the event of such an individual turning mad again. Madmen should not only know that if they commit crime they will be confined, but that that confinement will be a real calamity to them. If these principles were acted upon, justice would be done to society, madmen would be considered madmen,

SOME REMARKS ON MEDICAL LE-GISLATION.

By Dr. LICHLENSTADT, in the 'Berlin Medical Gazette.'

WE find almost everywhere various grades of medical men, but in this divisional arrangement there is great imperfection. Certainly, every medical man cannot be equally skilled in every branch of his art. If, therefore, in large towns the practice of one branch has for a long time been allowed to medical men, as operative surgeons, accoucheurs, &c., vet every medical man should be familiar with all these branches, and be able to employ them, if he should happen to stand alone and a sudden necessity should arise for such treatment. We cannot allow the separate exercise of any branch if it be not founded upon general medical principles, except in subordinate branches, as dental surgery. A similar exception might be made on good grounds with respect to midwifery. Can physicians allow that those who, on account of imperfect knowledge and principles, have only a circumscribed permission to practise, and who are distinguished by ambiguous names, as-surgeons, country physicians, licentiates, officiers de santo, &c., half doctors, in fact, agree with a pure medical constitution? They are, perhabs, useful in their circles, but they certainly have overstepped their limits. A just government will not take from individuals what has been granted; but it ought not to allow any more opportunities for the formation of half doctors. Russia has long since done what is right in this respect. The striking divisions into physicians, staff physicians, medico-chirurgi, and doctores medicinæ et chirurgiæ have there no influence on practice; for every one of these can follow medicine in its entire compass. Subordinate to all these is the assistant, called feldscheer, who is allowed to act only by their direction France the old ridiculous separation of physician and surgeon still obtains, and in the army stands out in fuller prominence. That the medical staff of the army has long been formed peculiarly, and that a less complete plan of instruction subsists for its medical men, is a great defect. Two kinds of physicians, military and civil, of different education and heterogeneous pretensions, have hence arisen, and have encountered each other's practice in fierce hostility. The military physician should have a due position and sufficient remuneration. In those countries where the army is composed of all grades, its medical men ought not to be a separate easte from other physicians. It is to be hoped that the time is not distant, when in all civilized countries the existence of different degrees of education and different modes of examination, in and out of the army, will be only known as a matter of history

Whether the physician should pursue his studies according to a rigorous plan, or be allowed a free option in the matter, is a difficult question. If we determine for free University studies generally, so must we allow them also to the physician: on the contrary, if all other studies are bound to an entirely fixed course, so must the physician be subject to the same rules. In this, however, the fol-

lowing points ought to be observed.

1st. Young men who possess a University education can alone be permitted an entirely free course of studies. The unriper, the intended physician in knowledge and age, so much the more dangerous is freedom.

2nd. Free studies are suitable only in an Universitas Literarum, where all human knowledge is taught, and where a general zeal is excited for knowledge.

3rd. Moderate capacities will learn much more by prescribed regulations, than by a more free option; these are not worthy of freedom.

4th. With regard to the expression "free studies," unlimited discretion must not be understood; but the absence of compulsion to any determinate period, or to abide by the regular instruction of any determinate teacher; but a moderate compulsion to the physician arises from the peculiarities of his studies. During many other studies, nearly everything may be learned from books, and often without prejudice. The medical student is little benefitted by private study. Few departments of medicine are at present propounded in so abstract a manner, that the student can give a preference to a printed book, unless he is attracted through the beauty or peculiarity of the subject. A further constraint may lie in this,that every teacher might have a right not to admit any student who is not properly prepared. Before physic, chemistry and botany are studied, no one ought to be allowed to attend any medical lecture. The French regulations to receive the students immediately after the first year of study into the hospital, as "externes," must produce a neglect of the preparatory province, and a premature predilection for practice. The great compulsion will be exercised by the final examination. Half yearly, and even yearly examinations, are incompatible with free studies, and generally lead to a superficial science, of which at the termination of his academic life the student possesses little more, unless compelled by a final examination in every department. There ought to be an examen philosophicum held, as a trial of initiatory studies (physics, chemistry, natural history, anatomy, and physiology,) after two years; and an examen practicum, which should proceed upon that which is peculiarly medical. It ought also to be permitted to the student, if he would choose, to have the first mentioned examination some short time before the second; and it should also be well known to him that at the end of his University life, and before he enters into his chosen calling, he will be subjected to "an every sided" examination—an examination that by free study ought to be much more severe than by a constrained course. The misuse of freedom, would thus only be feared in lightminded men.

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*. * The above works may be had of Messrs. Dulan and Co., Soho-square.

PERISCOPE OF THE WEEK.

CALORIC AND THERMO-ELECTRICITY. Dr. Knorr, Professor at the University of altered if exposed to the influence of heat,

Kasan, has lately made a discovery which may lead to important results in the study of the nature of calorie and thermo-electricity. He has discovered a method of copying, by means of heat, on silver, copper, and steel plates, not prepared as in the daguerreotype and other existing systems. Some of these thermographs were taken in from eight to fifteen seconds; others, by another process, in from five to ten minutes.

IMPROVED STATE OF HEALTH OF THE BRITtsh Navy.-Dr. Wilson in his recently published reports, says-the causes of the improved health of British seamen consist in an almost entire change in the constitution of the service, especially in the following important particulars: - abundance of nutritious food, and of wholesome palatable water; personal and general cleanliness, and comfortable clothing; ventilation, reduced allowance of spirits, and afternoon meal of tea; small monthly payment of money, partly in addition to wages, since the year 1825; regulations and restrictions respecting punishments; provision for mental improvement and recreation; better built ships, with greater capacity between decks; and, it may be added, without reflecting generally on the spirit and practice of former times, at least in so far as the executive was concerned, more judicions and humane treatment generally of seamen.

BILIN.—Bilin forms the chief part of fresh gall, at the expense of which the acids peculiar to gall take their origin, perhaps whilst still in the body of the animal, and certainly very quickly after having been removed. Bilin is a perfectly amorphous body in the pure state, hard, transparent, and colourless, although it is sometimes obtained, in experiments for its preparation, of a yellowish, sometimes of a perfectly yellow colour, produced by colouring matters which cannot be entirely separated. In order to obtain it colourless it is best to employ old gall, as the colouring matters contained therein are already destroyed; but in that case it is difficult to separate it from a salt of soda, which obstinately adheres to it. It is perfectly neutral, of a bitter taste like gall, and afterwards leaves a somewhat sweetish taste, resembling that of Spanish liquorice, or rather that of the bitter sweet substance in the abrns precatorins; this slightly sweetish sensation is chiefly felt afterwards in the throat. It has not any odour; if dissolved in water, and then evaporated by heat, it evolves a smell like boiled glue. does not deliquesce in the air, but in dry air is soon covered with numerous fine fissures, in consequence of which it loses its transparency. In this state it contains a quantity of water, which it yields up at a temperature of + 140, = 284 deg. F., becoming at the same time a semi-fluid mass, which is inflated by numerous bubbles, and which can be easily ground to a colourless powder: this absorbs gradually the lost water from the air-thus becoming coherent, and forming a transparent shining mass as before. It dissolves in water in all proportions, forming with it either a thick extract, like mass, or a solution at pleasure, which when diluted does not deposit any sediment. It dissolves also in alcohol, either pure or containing water in any proportion; by either, however, it is so very slightly acted upon, that it may be considered as in oluble therein, if the experiment be undertaken with the requisite care.-It is not precipitated by concentrated or diluted acids, not even by tannic acid; but by the strongest acids, with simple radical, sulphuric, phosphoric, nitric and hydrochloric acids, its composition is gradually

bilicholinic acids are deposited from the liquor. Nitrie acid produces the same effect; it afterwards destroys the different products, and by evaporating the solution to dryness in the water bath, a porous, clear, swollen mass remains, which easily dissolves in water, leaving behind a brown, resinous, and not bitter substance, which is not acid, and dissolves in boiling water.

SINGULAR CASE.—The Medicinische Zeitung mentions a case of hydrocele in a man, aged 50. He would not submit to the operation, but he himself repeatedly pushed a pin into the tumour, in consequence of which it gradually disappeared. The writer of the case, Dr. Peters, opines that the pin produced chronic inflammation of the lining of the sae, and thereby reabsorption of the fluid.

A TUIRD MAMMA.—There is a woman in Remagen, writes Dr. Oberstadt in a German paper, who has a third mamma, about three fingers' breadth below the left breast; it measures about three inches in diameter, and is provided with its proper nipple, and a peculiar areola. When the woman reached her last month of pregnancy, milk flowed abundantly from it, which continued for about a month after her confinement and then gradually ceased.

THE QUANTITY OF CARBONIC ACID GAS EXHALED IN RESPIRATION.—Messrs. Andral and Gavarret draw the following conclusions from a series of experiments instituted by them, to discover the quantity of carbonic acid gas exhaled from the lungs in man :- 1st. The quantity of carbonic acid gas, exhaled in a given time, varies according to the age, sex, and constitution. 2nd. In man, as well as in woman, the quantity is modified according to the age, independently of the weight of the individuals experimented on. 3rd. At all the periods of life, between the age of eight years and extreme old age, man and woman are distinguished by, the difference in the quantity of earbonic acid gas exhaled by their lungs in a given time. All things being otherwise equal, man always gives forth a much more considerable quantity than woman. This difference is especially marked between the ages of sixteen and forty, at which periods man furnishes nearly twice the quantity of carbonic acid gas from the lungs that a woman does. 4th, In man the quantity of carbonic acid gas is constantly increasing from the eighth year to the thirtieth -the increase becoming suddenly very great at the period of puberty; from the thirtieth year the exhalation of carbonic acid gas begins to decrease, the diminution becoming more marked as age advances, so that at the extreme point of life the exhalation of this gas may not be greater than it was at the tenth year. 5th. In woman the exhalation of this gas increases according to the same laws as in man during infancy; but at the period of puberty, at the same time that menstruction appears, this exhalation, contrary to that which happens in man, is suddenly arrested in its increase, and remains stationary (nearly as the amount which it exhaled was in infancy) as long as the menstrual function is duly performed, when it ceases, the exhalation of the gas from the lungs is increased in a remarkable manner, after which it decreases, as in man, in proportion as the woman advances towards extreme old age, 6th. During pregnancy, the exhalation of the gas for the time equals the quantity given forth by woman in which menstruation has ceased. And 7th, in both sexes, and at all ages the quantity of the gas exhaled is greater when the constitution is strong, and the muscular

system well developed. PRECAUTIONS FOR CHEMICAL TESTS.—Mr.

This occurs to the extent that bilifellipic and R. Howard submitted to the last meeting of the Pharmaceutical Society a paper on this subject, and after showing that disulphate of quina may be adulterated with sulphate of einelionine and many soluble vegetable substances and defy detection by any one of the usual tests suggested the following as approaching perfection. Put one hundred grains in a Florence flask, with five ounces of distilled water, and heat it over a spirit lamp; when it boils, notice whether complete solution is effected by this quantity of water; if so, your specimen is too soluble, and probably contains either some soluble adulteration, or some impurity, which renders the disalphate itself more soluble. Add two ounces more water (taking care to manage the flame of the lamp so as to avoid loss by evaporation): this quantity boiling briskly ought to dissolve the one hundred grains-if more is needed sulphate of lime may be suspected (and recognized by the test of spirit of wine). Now, let it crystallize in the flask, and when quite cold, filter out the crystals, washing out the flask with some of the filtered liquor, to avoid using more water. Put the filter with the crystals upon blotting paper folded many times, to absorb the mother liquor; let them dry in the air till they are quite dry to the touch, but not effloresced. In this state they ought to weigh about ninety grains, the mother liquor and unavoidable waste even of so simple a process, accounting for the rest. If the mother liquor be evaporated to one onnee, a second crop of about six grains may be obtained. The remaining mother liquor ought net, when evaporated to dryness, to yield more than two grains; any schible impurity will, of course, increase the quantity of residuum. It will be well to try some which you have recrystallized, as a standard experiment, as the results depend in some degree upon the skill of the operator.

MINERAL ACIDS IN DROPSY .- Dr. Trusen, of Posen, has found mineral acids of universal benefit in dropsy not dependent on disease of the respiratory organs, or extensive disorganisation of the liver. The principal medicines of this class he employed, were the acid-clixir of Haller and phosphoric acid, The former is useful in dropsics of an adynamic character, those consequent on intermittent fevers, and others due to checks of the perspirations or other secretions. The phosphoric acid is suitable in cases of dropsy owing to an altered condition of the blood, those supervening after diarrhœa, dysentery, chlorosis, &c. The above medicaments, of themselves, generally, insure a free action of the bowels; in some obstinate eases, alcoholic vapour-baths are used to produce a sudoritic effect. M. Trusen remarks, that the extensive tumefaction of the scrotum, which presents so marked a tendency to terminate in gangrene, yields, under the use of detergent lotions of vinegar, muriate of ammo-

nia, and water.

PULMONARY TUBERCLES .- M. E. Boudet, after hundreds of autopsies of all kinds, thinks that between the age of 1 day and 2 years, tuhereles exist in the lungs and bronchial glands in 1 of 57 subjects From 2 to 15 years three times in four (33 in 45.) From 15 to 76 years six times in seven (in one hundred and sixteen of one hundred and thirty-five subjects.) During this period of life, six out of seven, i. c., present recent or old tubercles, and their presence may be considered the rule, their absence the exception. The favourable modifications of tubereles of the lungs are 1. Sequestration. The tubercular matter, without being obviously changed in its nature, is isolated from the surrounding parts by means of a mucous, or a fibrous, or a fibro-cartilaginous membrane. Induration, i.e., the tubercle is of a dry friable consistence, or it becomes tenacious and deuse,

though fatty to the touch, or it becomes calcareous.

3. They become black pulmonary matter. 4. Are absorbed. 5. They are eliminated by the bronchiæ. These transformations which sometimes co exist in the same individual, may be effected during any of the periods of the evolution of tuhereles. In one hundred and ninety-seven promiseuous cases, M. Bondet found in ten a cavity completely cicatrised, without any recent tuberele. In eight cases the complete or incomplete cure of one or several morbid cavities coincided with the presence of recent tubercles. Pulmonary cavities cicatrise by the organization of an accidental mucous membrane, or by the formation of a fibro-cartilaginous envelope. Whether the cavities communicate or not with the bronchial tubes, they may remain open.

eight, robust, was attacked with a sudden and

ILIAC DISEASE .- A labouring man, forty-

violent pain in the abdomen to the right of the numbilions. The pain persisted, and for several days no evacuation of the bowels took place. Aperient medicines and lavements, now employed, were far from producing any benefit, and the patient soon took to his bed. Agitation and restlessness continual; the tongue furred; pulse small, though regular, abdomen inflated, particularly its gastric region, but painful only at the one point to the right of the navel. Frequent excrementitious eructations, and in twenty-four hours afterwards stereoral matters were vomited. The pain, anxiety, &c., continued to increase, while the pulse fell so as to become almost imperceptible. Dr. Schrobitz, of Gaudenz, first obliged the patient to take a warm bath, and then had him placed on his back, and raised his legs over the shoulders of a strong man. The latter, having grasped his ankles, the rest of the patient's body was supported by two other persons, so as to hang head downwards. The patient was then shaken briskly several times, while the practitioner kneaded the abdomen with both his hands. After about twenty-five minutes incessantly occupied with this kind of manipulation, the patient experienced all at once, in the chief seat of pain, a sensation of something having given way (le sentiment d'unevessie qui

aperients now insured complete recovery. MARINE GLUE.-The new marine glue will he found an excellent coment for joining pieces of glass together, and especially in the making of cells for the reception of microscopic objects, mounted after the method of Mr. Goadby. The glue is prepared in the following manner: Take 4 gallons coal naphtha, in which I pound caoutehoue is to be dissolved, by maceration for several days; and with 1 pint of this solution, 2 pounds shellac are to be mixed by heat; and when the fusion is complete, the material is to be poured out on a cold slate, and moulded into convenient forms for use. When cold, it is hard as sealing wax, and is applied by heating the pieces of glass, which, when hot, and covered with the cement, should be pressed

se serait dechirce,) when the pain immediately

and wholly ceased. Warm baths and gentle

closely together.

POTATOE IN SCURVY .- In an article published in the Medical Gazette, Dr. Baly states that he has found that the efficacy of the potatoe as an anti scorbutic, which was demonstrated by Sir Gilbert Blane, Mr. Smith, and M. Julia Fontanelle, is not essentially impaired by the boiling heat; and that, as ordinarily cooked, it is an admirable preservative against scurvy. He was induced to turn his attention to the subject by noticing that the soldiery contined in the Penitentiary, who had not any potatoes on their diet-table, where subject to scurvy, while the convicts, who were supplied freely with that esculent, escaped its rayages.

After some unimportant changes in their diet, which were without benefit, potatoes were ordered for them on Dr. Baly's suggestion, and soon afterwards the disease finally ceased.

THE URINE -The peculiar value of the information afforded by an examination of the urine arises, in addition to the readiness there exists for detecting any change, from this fluid being a secreted excretion, and not being, like the alvine evacuations, an exerction made up in great part of the debris and effete portions of the ingesta, and therefore liable to have its indications masked by a series of eanses which are nearly without action on the urine. The urine, in a physiological sense, must be regarded as arising from three sources, each of which, however, acts in preserving the equilibrium of the delicately adjusted balance of the several functions of the body. effects of large aqueous potations in producing a copious discharge of pale urine, at once shews one source of the secretion, and points out one of the great functions of the kidneys, viz. the pumping off any excess of fluid which may enter the circulation. The peculiar character of the urine passed just after the digestion of a meal is complete, partaking often of the physical or chemical characters of some element of the food, indicates a second great function of the kidney, viz. the removing from the system those portions of the ingesta which have been absorbed whilst passing though the small intestines, and thus have entered the circulation, or of excreting from the circulating mass the -often noxious -results of mal-assimilation of the former. The fætid urine voided after cating a meal of asparagus may be taken as an example; and of the latter, the abundant elimination of ovalie acid from the blood in many forms of irritative dyspepsia will serve as an illustration. The third and very important function performed by the kidney is its serving as an outlet, to evolve from the animal organism those elements of the disorganization of the tissues, which cannot serve any ulterior purpose in the economy, and which cannot be thown off by the skin or lungs. Every moment we live each atom of our frame is undergoing some change or other: the old matter is absorbed, and ultimately thrown off by the excretion, whilst an equivalent quantity of new matter is deposited to supply its place. The old matter absorbed is not thrown off as dead tissue, but its elements become re-arranged; a portion, especially its carbon, has to perform an important secondary office in the economy before it is got rid of, whilst its azotised elements are excreted by the kidney; and this constitutes a third variety of uring in health.

MEDICAL NEWS.

Mr. Cooper, the surgeon, has been elected coroner for Portsmouth, by a majority of eighteen over his competitor, Mr. Newlyn, a solicitor.

Mr. Isaac Flower, surgeon, abandoned the contest for the coronership for Wiltshire, in consequence of a notice from the Poor Law Commissioners that he could not be allowed to hold the county coronership and medical officership of a union at the same time.

A society for reprinting old and publishing new medical works has been formed. Mr. Burroughs, of George Street, Hanover Square, is the secretary.

Mr. Perry, of the Medico-Chirurgical Society, is the new inspector of prisons, vice Dr. Shortt deceased.

Mr. Bouilland has been re-elected a Member of the Chamber of Deputies.

Dr. Kingston has been elected surgeon to the Westminster Hospital by a majority of fourteen. Dr. Basham was strongly opposed by most of the medical officers of the Institution, who charge on him, we know not with what truth, a love of cavesdropping sycophaney to the committee.

Mr. Tucker, of Bridport, recently brought an action against the executors of a Mr. Chambers for monies due to him for medicines, surgical operations, and attendances. The last item was disputed as contrary to custom. The jury, under the judge's direction, decided that the surgeon might charge for attendances and gave the plaintiff a verdict.

Mr Meymott has been elected surgeon to Surrey County Gaol, Horsemonger Lane, after a hotly contested election by a casting vote of the sessions chairman. Mr. Harris was the other

FALSE NEWS .- An obscure weekly journal has been recently asserting that the College of Physicians has been admitting into its body, under false colours, a new kind of practitioners, who are marked in contra-distinction to the fellows and licentiates as "members." is neither more nor less than arrant nonsense. The trifling truth on which the falsehood has been raised is, that the College authorities have found it convenient to shew increased liberality, in the admission of old general practitioners into the number of their licentiates.

ROYAL COLLEGE OF SURGEONS. LONDON.

List of Gentlemen admitted Members on Friday, March 10, 1843 :-

P. Walsh, G. W. Bagg, R. Lee, W. Mitchell, W. B. Francis, J. Arthur, J. Ness, J.O. Goodridge, T. J. Austin, and T. P. Smith.

Admitted, Friday, March 17th, 1843.—P. Hubbert, T. A. Warren, W. Williams, T. Hawkins, P. A. Boyle, J. B. Davis, J. Allan, J. R. Pope, J. T. Jenkins, J. S. Nott, J. 11. Coveney.

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"C. H. Wilkinson, M.D."

" Dufed October 23d, 1840."

To Mr. C. DINNELORD, Bond-street, London.

The above conclusive testimony Is further corroborated by PROTI s-SUR Ha van, of the Royal Institution.

DR PARIS, author of the Pharmacologia, and Mr Morgon, of Dublin, who also examined and reported on Sir James Morray's controlled

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